DOCUMENT RESUME

ED 165 663 HE 010 945

AUTHOR Donny, William F.
TITLE Postgraduation Activities: All Degree Levels in Pennsylvania, 1977.
INSTITUTION Pennsylvania State Dept. of Education, Harrisburg. Bureau of Information Systems.
PUB DATE Jun 78
NOTE 95p.; Tables from page 58-95 may not reproduce well due to small print
AVAILABLE FROM Pennsylvania Department of Education, Box 911, Harrisburg, PA 17126

EDRS PRICE MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS Associate Degrees; Bachelors Degrees; *College Graduates; College Majors; *Degrees (Titles); *Demand Occupations; Doctoral Degrees; *Employment Opportunities; Followup Studies; *Graduate Surveys; Higher Education; Labor Market; Masters Degrees; Private Colleges; Professional Education; State Colleges; State Surveys; State Universities; Statistical Data
IDENTIFIERS *Pennsylvania

ABSTRACT

Details of relationships between employment demand and the supply of graduates of various degree fields and degree levels from all types of institutions in Pennsylvania in 1977 are presented. Data on 45,078, or 50.5 percent of the higher education graduates at all degree levels, represents graduates' status five to six months after their graduation. All state and community colleges and two-thirds or more of state-aided and private junior colleges were not included. Postgraduate activities for graduates from 23 major disciplines are reported for the following five degree levels: bachelors, masters, doctoral, first-professional, and associate. Approximately 50 statistical tables are included, and some of the findings are summarized in the text. It was found that bachelor degree graduates experienced high employment rates if they had majored in computer sciences, engineering, or the health professions. A weak job market was experienced particularly by bachelor degree graduates in area studies, biological sciences, foreign languages, letters, psychology, social studies, and interdisciplinary studies. At the graduate levels employment was increasingly favorable, and a high percentage of associate degree graduates went on to further education. (SW)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Ga. Dept of Education

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND THE ERIC SYSTEM CONTRACTORS."

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

ED165663

Postgraduation Activities: All Degree Levels In Pennsylvania 1977

Prepared by
William F. Donny
Division of Research
Bureau of Information Systems
Pennsylvania Department of Education
June 1978

Commonwealth of Pennsylvania
Milton J. Shapp, *Governor*

Department of Education
Caryl M. Kline, *Secretary*
Robert N. Hendershot, *Executive Deputy*

Bureau of Information Systems
Seon H. Cho, *Director*

Division of Research
Robert B. Hayes, *Director*

Pennsylvania Department of Education
Box 911
Harrisburg, PA 17126

TABLE OF CONTENTS

	Page No.
SUMMARY	viii
Purpose	viii
Procedures	viii
Results	viii
INTRODUCTION	1
PROCEDURES	1
Objectives	1
Methodology	1
Validity of the Sample	2
Type and Location of Tables	2
RESULTS	2
Postgraduation Status for Bachelor's Graduates	2
Full-Time Employment for Bachelor's Graduates, 1976-1977	4
Percentage of Graduates Not Seeking Employment	5
Bachelor's Graduates Employed in Field of Preparation, 1976-1977	5
Bachelor's Graduates Employed in Pennsylvania, 1976-1977	6
Bachelor's Graduates Seeking Advanced Degrees, 1976-1977	7
Bachelor's Level Employment Ranked by Major Discipline, 1974-1977	8
Implications of Full-Time Employment Rank Averages	9
Postgraduation Status for Master's Degree Graduates	9
Full-Time Employment for Master's Degree Graduates	11
Master's Graduates Employed in Their Field of Preparation	11
Master's Graduates Employed in Pennsylvania	12
Master's Graduates Who Pursue Advanced Degrees	13
Postgraduation Status for Doctoral Graduates	13
Full-Time Employment for Doctoral Graduates	13
Doctoral Graduates Employed in Their Field of Preparation	15
Doctoral Graduates Employed in Pennsylvania	16
Doctoral Graduates Pursuing Advanced Study	17
Postgraduation Status of First-Professional Degree Graduates	17
Full-Time Employment of First-Professional Degree Graduates, 1976-1977	19
First-Professional Graduates Employed in Field of Preparation, 1976-1977	19
First-Professional Graduates Employed in Pennsylvania, 1976-1977	20
First-Professional Graduates Who Pursue Advanced Degrees	20
Postgraduation Status for Associate Degree Recipients	20
Full-Time Employment for Associate Degree Graduates, 1976-1977	20
Associate Degree Graduates Employed in Their Field of Preparation, 1976-1977	22
Associate Degree Graduates Employed in Pennsylvania, 1976-1977	23
Associate Degree Graduates Pursuing Advanced Degrees, 1976-1977	23
CONCLUSIONS	24
APPENDICES	26

LIST OF TABLES

Table No.		Page No.
1	Employment Status by Major Discipline for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977	3
2	Percentage of Bachelor's Degree Graduates with Full-Time Employment, Ranked by Major Discipline for 1976-1977	4
3	Percentage of Full-Time Employed Bachelor's Degree Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977	5
4	Percentage of Full-Time Employed Bachelor's Graduates Employed in Pennsylvania, Ranked by Major Discipline, 1976-1977	6
5	Percentage of Bachelor's Graduates Pursuing Advanced Degrees, Ranked by Major Discipline, 1976-1977	7
6	Full-Time Employment Rank Comparisons for Bachelor's Degree Graduates Listed by Mean Ranking Over Time	8
7	Employment Status by Major Discipline for Master's Degree Recipients for All Institutions in Pennsylvania, 1977	10
8	Percentage of Master's Graduates with Full-Time Employment Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977	11
9	Percentage of Full-Time Employed Master's Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977	12
10	Percentage of Full-Time Employed Master's Graduates Employed in Pennsylvania, Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977	12
11	Percentage of Master's Graduates Pursuing Advanced Degrees Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977	13
12	Employment Status by Major Discipline for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1977	14
13	Percentage of Doctoral Graduates with Full-Time Employment, Ranked by Major Discipline, Includes Comparable Bachelor's and Master's Ranks, 1977	15
14	Percentage of Full-Time Employed Doctoral Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, Includes Comparable Bachelor's, Master's Ranks, 1977	16

LIST OF TABLES
(continued)

Table No.		Page No.
15	Percentage of Full-Time Employed Doctoral Graduates Employed in Pennsylvania, Ranked by Major Discipline, Includes Comparable Bachelor's and Master's Ranks, 1977	17
16	Employment Status by Major Discipline for First-Professional Degree Recipients for All Institutions in Pennsylvania, 1977.	18
17	Percentage of First-Professional Degree Graduates with Full-Time Employment, Ranked by Major Discipline, 1976-1977.	19
18	Percentage of Full-Time Employed First-Professional Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977.	19
19	Percentage of Full-Time Employed First-Professional Degree Graduates Employed in Pennsylvania Ranked by Major Discipline, 1976-1977	20
20	Employment Status by Major Discipline for Associate Degree Recipients for All Institutions in Pennsylvania, 1977	21
21	Percentage of Associate Degree Graduates, with Full-Time Employment, Ranked by Major Discipline, 1976-1977	22
22	Percentage of Full-Time Employed Associate Degree Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977.	22
23	Percentage of Full-Time Employed Associate Degree Graduates Employed in Pennsylvania, Ranked by Major Discipline, 1976-1977	23
24	Percentage of Associate Degree Graduates Pursuing Advanced Degrees, Ranked by Major Discipline, 1976-1977	24
25.0	Number of Returns Received from Four-Degree Levels of Graduates Compared with the Number of Graduates for All Institutions by Major Discipline, 1977	27
25.1	Number of Returns Received from Graduates at Four-Degree Levels as Compared with the Number of Graduates for All Institutions Within Institutional Categories in Pennsylvania, 1977.	28
25.2	Number of Returns Received for Associate Degree Graduates Compared with the Number of Graduates for All Such Institutions by Major Discipline, 1977.	29

LIST OF TABLES
(continued)

Table No.		
25.3	Number of Returns Received for Associate Degree Graduates Compared with the Number of Graduates for All Such Institutions by Institutional Category, 1977.	29
26.0	Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1977	30
26.1	Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977	31
26.2	Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Aided Institutions in Pennsylvania, 1977	32
26.3	Employment Status by Major Discipline for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1977	33
27.0	Employment Status by Major Discipline for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1977	34
27.1	Employment Status by Major Discipline for Master's Degree Recipients for State-Aided Institutions in Pennsylvania, 1977	34
27.2	Employment Status by Major Discipline for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977	35
27.3	Employment Status by Major Discipline for Master's Degree Recipients for Private Institutions in Pennsylvania, 1977	36
28.0	Employment Status by Major Discipline for Doctoral Degree Recipients for State-Related Institutions in Pennsylvania, 1977.	37
28.1	Employment Status by Major Discipline for Doctoral Degree Recipients for Private Institutions in Pennsylvania, 1977	38
28.2	Employment Status by Major Discipline for Doctoral Degree Recipients for State-Aided Institutions in Pennsylvania, 1977	38
29.0	Employment Status by Major Discipline for Associate Degree Recipients for Community Colleges in Pennsylvania, 1977	39
29.1	Employment Status by Major Discipline for Associate Degree Recipients for Proprietary Institutions in Pennsylvania, 1977	40

LIST OF TABLES
(continued)

		Table No.
29.2	Employment Status by Major Discipline for Associate Degree Recipients for Four-Year Colleges & Universities, 1977	41
30.0	Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977	42
30.1	Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1977	47
30.2	Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977	50
30.3	Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Aided Institutions in Pennsylvania, 1977	54
30.4	Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1977	55
31.0	Employment Status by Degree Field for Master's Degree Recipients for All Institutions in Pennsylvania, 1977.	59
31.1	Employment Status by Degree Field for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1977	63
31.2	Employment Status by Degree Field for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977	65
31.3	Employment Status by Degree Field for Master's Degree Recipients for State-Aided Institutions in Pennsylvania, 1977	68
31.4	Employment Status by Degree Field for Master's Degree Recipients for Private Institutions in Pennsylvania, 1977	69
32.0	Employment Status by Degree Field for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1977.	71
33.0	Employment Status by Degree Field for Associate Degree Recipients for All Institutions, 1977	74
33.1	Employment Status by Degree Field for Associate Degree Recipients for Community Colleges, 1977	76
33.2	Employment Status by Degree Field for Associate Degree Recipients for Proprietary Institutions, 1977	78
33.3	Employment Status by Degree Field for Associate Degree Recipients for Four-Year Colleges and Universities, 1977.	79

SUMMARY

Purpose

This study examines the employment in all degree levels in Pennsylvania institutions of higher education in 1977. The study tries to answer such questions as:

...How many graduates were employed? Unemployed? Pursuing advanced degrees?

...How many employed graduates held jobs outside Pennsylvania?

...How many graduates held jobs for which they had prepared?

...What was the relative degree of employment success for graduates in each major discipline and degree field?

...What were the differences in postgraduation activities according to the type of institution?

Procedures

This report is based on data for 45,078 graduates, or 50.5 per cent of the 89,265 higher education graduates at all degree levels from most of Pennsylvania's postsecondary institutions in 1977.

Results

Summary postgraduation results for 1977 graduates are compared with those for 1976 in the following table in percentage terms.

Degree Level	Employed Full Time		Employed Part Time		Not Employed		Pursuing Advanced Degree		Of Full-Time Employed: Employed in Field Prepared		Of Full-Time Employed: Employed in Pa.	
	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977	1976	1977
Associate	60.3	67.7	2.0	3.8	8.4	6.1	29.2	22.4	86.3	87.4	90.5	88.3
Bachelor's	59.3	62.0	4.5	5.8	18.8	15.9	17.4	16.3	72.1	75.5	72.6	69.9
Master's	81.0	79.6	2.0	3.7	7.3	6.7	9.7	10.0	90.5	90.6	75.7	76.8
Doctor's	86.9	90.8	1.8	3.6	5.3	4.2	6.0	1.4	93.7	90.3	44.4	57.0
First Prof.	92.6	91.9	1.3	0.5	1.9	2.2	4.2	5.4	98.6	96.4	60.5	57.1

Bachelor degree graduates experienced high employment rates if they had majored in computer sciences, engineering, or the health professions.

A weak job market was experienced particularly by bachelor degree graduates in area studies, biological sciences, foreign languages, letters, psychology, social studies, and interdisciplinary studies.

At the graduate levels employment was increasingly favorable. A high per cent of associate degree graduates went on to further education.

INTRODUCTION

Factors relating to the vitality of higher education institutions are subjects of keen analysis in these times of financial inflation and dwindling student enrollments. This report details vital relationships between employment demand and the supply of graduates of various degree fields, degree levels from all types of institutions in Pennsylvania in 1977.

Authorized by the Office of Higher Education, Pennsylvania Department of Education, this report is the fifth in a series designed to supply information useful to students, counselors and other educational planners and decision makers.

PROCEDURES

Objectives

Answers to the following questions were sought: What proportion of graduates in each degree field and degree level were (1) employed in their fields of preparation, (2) employed in another field, (3) employed outside Pennsylvania, (4) unemployed, or (5) pursuing advanced degrees? What is the employment status of graduates for each field of study and degree level? What differences are there in these postgraduation activities by institutional type--state-owned, state-related, private state-aided, and private? How do the answers to these questions in 1977 compare with answers to comparable questions in 1976?

Methodology

The subjects of this study were those graduated between January 1977 and August 1977 from all degree programs in Pennsylvania institutions of higher education. In the summer of 1976 forms were sent to contact persons at each postsecondary institution in the state from the Division of Research, Pennsylvania Department of Education, Harrisburg. These were usually career services officers appointed by their institutions to cooperate in this study.

The data collection methods varied among the institutions depending upon the survey method developed at each. For instance, one college continuously surveys by including a survey card in employment lists sent periodically to graduates. Upon employment, these graduates are requested to complete and return the card.

Another institution surveys its graduates at intervals, such as the following: December graduates in March, May graduates in August, and August graduates in September. Other institutions survey all their graduates around mid-November. In December intensive follow-up procedures are initiated to obtain information from nonrespondents.

In general, the information in this report represents graduates' status five to six months after their graduation.

By January 1978 due date, the Division of Research had received forms containing information for 45,078 graduates, or 50.5 per cent of the 89,265 graduates of Pennsylvania institutions of higher education in 1977. All state-owned, state-related, and community colleges participated in the study, as did two-thirds or more of state-aided, and private colleges and universities. Theological seminaries and private junior colleges were not included in this study. Further statistics are in the Appendix.

Validity of the Sample

In several prior studies of this series, no significant differences were found between survey respondents and nonrespondents when follow-up surveys of the latter were made to determine the adequacy of the initial sampling. Since the present study is similar to its predecessors, the sampling represented in this report is assumed to be adequate to provide valid conclusions.

Type and Location of Tables

Results of this study are summarized in five tables presented in the body of this report. These five tables, one for each degree level, show postgraduation activities for all responding graduates in each of the 23 major disciplines.

More extensive tables in the Appendix give additional information about respondents' postgraduation employment by the various degree fields within each major discipline. These degree-field tables are organized by degree level as well as by institutions categorized as state-owned, state-related, state-aided, and private.

The major disciplines and degree fields referred to in this report are those of the Higher Education General Information Survey (HEGIS) classification system.

The tables in the Appendix include an "all others" category, which should represent the difference between the number of respondents and the number of graduates in each degree field. In the tables given in the text, where only the actual number of respondents is of concern, this "all others" category is deleted.

RESULTS

Postgraduation Status for Bachelor's Graduates

Table 1 summarizes the postgraduation status for 29,140 baccalaureate graduates in 23 major disciplines in 1977. Detailed data for these graduates by degree field and institutional segment are given in the Appendix. Highlights of the postgraduation status of bachelor's degree graduates of 1977 and 1976 follow:

Year	Responding Grads.	Employed		Un-employed	Pursuing Advanced Degree	Of Full-Time Employed	
		Full Time	Part Time			Employed in Field Prepared	Employed in Pa.
		%	%	%	%	%	%
1976	30,029	59.3	4.5	18.8	17.4	72.1	72.6
1977	29,140	62.0	5.8	15.9	16.3	75.3	69.9

Attention should be given to the interrelationships between the percentages following each major discipline in Table 1. For example, major disciplines with lower proportions of graduates in full-time employment tend to have higher proportions in other categories, such as pursuing advanced degrees. Percentages given for those unemployed should be interpreted in this context as well.

Table 1

Employment Status by Major Discipline for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree
Agriculture and Natural Resources	600	176 (29.3)	129 (21.5)	68 (11.3)	23 (3.8)	29 (4.8)	99 (16.5)	76 (12.7)
Architecture and Environmental Design	101	38 (37.6)	19 (18.8)	5 (5.0)	8 (7.9)	3 (3.0)	12 (11.9)	16 (5.8)
Area Studies	38	2 (5.3)	2 (5.3)	8 (21.0)	7 (18.4)	1 (2.6)	8 (21.1)	10 (26.3)
Biological Sciences	1,636	224 (13.7)	105 (6.4)	156 (9.5)	59 (3.6)	67 (4.1)	286 (17.5)	739 (45.2)
Business and Management	4,944	2,099 (42.5)	830 (16.8)	424 (8.6)	115 (2.3)	150 (3.0)	906 (18.3)	420 (8.5)
Communications	464	150 (32.3)	64 (13.8)	58 (12.5)	27 (5.8)	43 (9.3)	91 (19.6)	31 (6.7)
Computer Sciences	238	136 (57.1)	53 (22.3)	9 (3.8)	2 (0.8)	1 (0.4)	15 (6.3)	22 (9.2)
Education	7,889	2,730 (34.6)	1,074 (13.6)	1,082 (13.7)	240 (3.0)	826 (10.5)	1,325 (16.8)	612 (7.8)
Engineering	1,730	616 (35.6)	729 (42.1)	49 (2.8)	32 (1.9)	17 (1.0)	120 (6.9)	167 (9.7)
Fine and Applied Arts	799	181 (22.7)	119 (14.9)	108 (13.5)	43 (5.4)	82 (10.2)	125 (15.6)	141 (17.7)
Foreign Language	319	31 (9.7)	31 (9.7)	50 (15.7)	37 (11.6)	22 (6.9)	58 (18.2)	90 (28.2)
Health Professions	1,349	876 (64.9)	216 (16.0)	49 (3.6)	6 (0.4)	33 (2.5)	99 (7.3)	70 (5.2)
Home Economics	446	149 (33.4)	55 (12.3)	57 (12.8)	17 (3.8)	26 (5.8)	79 (17.7)	63 (14.1)
Law	8	3 (37.5)	-	-	-	-	1 (12.5)	4 (50.0)
Letters	995	159 (16.0)	113 (11.4)	174 (17.5)	67 (6.7)	55 (5.5)	160 (16.1)	267 (26.8)
Library Science	128	58 (45.3)	21 (16.4)	15 (11.7)	1 (0.8)	3 (2.3)	19 (14.8)	11 (8.6)
Mathematics	500	184 (36.8)	86 (17.2)	39 (7.8)	16 (3.2)	13 (2.6)	47 (9.4)	115 (23.0)
Physical Sciences	896	157 (17.5)	105 (11.7)	50 (5.6)	27 (3.0)	19 (2.1)	68 (7.6)	470 (52.5)
Psychology	1,293	263 (20.3)	96 (7.4)	191 (14.8)	75 (5.8)	90 (7.0)	238 (18.4)	340 (26.3)
Public Affairs and Services	1,281	443 (34.5)	125 (9.8)	189 (14.8)	53 (4.1)	72 (5.6)	282 (22.0)	117 (9.1)
Social Sciences	2,879	543 (18.9)	280 (9.7)	439 (15.3)	223 (7.8)	110 (3.8)	499 (17.3)	785 (27.2)
Theology	161	25 (15.5)	28 (17.4)	21 (13.0)	15 (9.3)	2 (1.2)	18 (11.2)	52 (32.3)
Interdisciplinary Studies	446	76 (17.0)	44 (9.9)	69 (15.5)	24 (5.4)	24 (5.4)	80 (17.9)	129 (28.9)
GRAND TOTAL	29,140	9,319 (32.0)	4,324 (14.8)	3,310 (11.4)	1,117 (3.8)	1,688 (5.8)	4,635 (15.9)	4,747 (16.3)

Full-Time Employment for Bachelor's Graduates, 1976-1977

Table 2 ranks the major disciplines from high to low according to the success of graduates in obtaining full-time employment in 1977. Comparable percentages and ranks from the 1976 report on baccalaureate graduates are included for comparison purposes.

Table 2

Percentage of Bachelor's Degree Graduates with Full-Time Employment, Ranked by Major Discipline for 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Health Professions	77.1	84.9	2	1
Computer & Information Science	78.8	84.0	1	1
Engineering	73.5	82.4	3	3
Library Science	71.2	74.2	4.5	4
Business & Management	71.1	70.2	4.5	5
Arch. & Environ. Design	58.3	69.3	12	6
Agri. & Natural Resources	69.5	65.9	7	7
Mathematics	63.4	65.0	9	8
Education	61.5	64.9	10	9
Communications	63.6	64.4	8	10
Public Affairs & Services	59.6	63.2	11	11
Home Economics	69.8	62.3	6	12
Fine & Applied Arts	53.9	56.5	15	13
Theology	58.0	55.2	14	14
Social Sciences	47.6	51.7	18	15
Letters	53.8	51.6	16	16
Area Studies	58.1	50.0	13	17
Psychology	44.9	48.3	19	18
Interdisciplinary Studies	43.8	47.8	20	19
Foreign Languages	49.6	46.7	17	20
Physical Sciences	37.7	37.8	21	21
Law	13.6	37.5	23	22
Biological Sciences	34.7	33.2	22	23

The major disciplines listed in the two columns below indicate increases and decreases in baccalaureate graduates' full-time employment between 1976 and 1977.

Percentage Changes in Full-Time Employment for Bachelor's Graduates, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Law	23.9	Area Studies	8.1
Arch. & Environ. Design	11.0	Home Economics	7.5
Engineering	8.9	Agri. & Natural Resources	3.6
Health Professions	7.8	Foreign Languages	2.9
Computer & Information Sci.	4.2	Theology	2.8
Social Sciences	4.1	Letters	2.2
Interdisciplinary Studies	4.0	Biological Sciences	1.5
Public Affairs & Services	3.6	Business & Management	0.9
Education	3.4		
Psychology	3.4		
Library Science	3.0		
Fine & Applied Arts	2.6		
Mathematics	1.6		
Communications	0.8		
Physical Sciences	0.1		

Percentage of Graduates Not Seeking Employment

The percentage of baccalaureate graduates not seeking employment has held steady at approximately 2.0 per cent over the past four years. In a detailed study in 1974, 2.3 per cent of the 25,176 graduates surveyed indicated they were not seeking employment at that time. In 1978 an inquiry directed at career service officers at state-owned institutions revealed the percentage of graduates not seeking employment ranged from a low of 0.5 per cent at one institution to a high of 4.3 at another, for an average of about 2.0 per cent.

Bachelor's Graduates Employed in Field of Preparation, 1976-1977

Table 3 indicates by per cent and rank the degree to which full-time employed baccalaureate graduates were employed in their field of preparation in 1976 and 1977.

Table 3

Percentage of Full-Time Employed Bachelor's Degree Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Law	50.0	100.0	18	1
Health Professions	96.7	95.2	1	2
Computer & Information Sci.	95.1	94.5	2	3
Engineering	93.6	94.3	3	4
Business & Management	79.8	84.5	5	5
Library Science	70.3	83.2	12	6
Mathematics	77.7	83.1	9	7
Arch. & Environ. Design	82.1	81.4	4	8
Physical Sciences	77.5	77.3	8	9
Agri. & Natural Resources	79.4	77.0	7	10
Education	74.5	74.2	10	11
Home Economics	79.7	73.4	6	12
Communications	64.7	71.6	14	13
Public Affairs & Services	66.8	70.1	13	14
Fine & Applied Arts	60.2	66.5	15	15
Biological Sciences	55.1	60.5	17	16
Theology	71.4	59.6	11	17
Psychology	49.8	57.4	19	18
Interdisciplinary Studies	58.0	56.3	16	19
Social Sciences	46.6	55.4	20	20
Letters	43.0	53.0	21	21
Foreign Languages	39.4	41.6	22	22
Area Studies	11.1	21.1	23	23

Increases and decreases in the percentages of full-time employed bachelor's graduates employed in their field of preparation between 1976 and 1977 are listed below.

Percentage Changes in Employment in Field of Preparation for Bachelor's Graduates with Full-Time Employment, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Law	50.0	Theology	11.8
Library Science	12.9	Home Economics	6.3
Letters	10.0	Agri. & Natural Resources	2.4
Area Studies	10.0	Interdisciplinary Studies	1.7
Biological Sciences	9.4	Health Professions	1.5
Social Science	8.8	Arch. & Environ. Design	0.7
Psychology	7.6	Computer & Info. Science	0.6
Communications	6.9	Education	0.3
Fine & Applied Arts	6.3	Physical Science	0.2
Mathematics	5.4		
Business & Management	4.7		
Public Affairs	3.3		
Foreign Languages	2.2		
Engineering	0.7		

Bachelor's Graduates Employed in Pennsylvania, 1976-1977

Table 4 ranks the major disciplines according to the percentage of fully employed baccalaureate graduates in each discipline who are employed in Pennsylvania.

Table 4

Percentage of Full-Time Employed Bachelor's Graduates Employed in Pennsylvania, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Law	87.5	100.0	2	1
Health Professions	92.7	80.6	1	2
Public Affairs & Services	77.7	78.0	4	3
Library Science	74.3	76.8	8	4
Education	80.2	74.4	3	5
Home Economics	69.2	74.1	14	6
Business & Management	71.3	72.8	12	7
Psychology	75.1	72.6	7	8
Computer & Info. Science	69.0	72.5	15	9
Biological Sciences	70.6	69.9	13	10
Communications	74.9	69.6	5	11
Mathematics	59.6	68.6	21	12
Interdisciplinary Studies	71.4	68.1	11	13
Social Sciences	72.3	66.1	9	14
Letters	71.9	64.9	10	15
Fine & Applied Arts	61.2	64.1	20	16
Agri. & Natural Resources	62.3	61.6	18	17
Arch. & Environ. Design	79.1	61.4	6	18
Physical Sciences	62.4	61.1	17	19
Foreign Languages	62.2	54.3	19	20
Area Studies	66.7	52.6	16	21
Theology	58.0	51.7	22	22
Engineering	46.5	46.6	23	23

The major disciplines listed below show the increases and decreases in baccalaureate graduates' employment in Pennsylvania between 1976 and 1977.

Percentage Changes in Pennsylvania Employment for Bachelor's Graduates, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Law	12.5	Arch. & Environ. Design	17.7
Mathematics	9.0	Area Studies	14.1
Home Economics	4.9	Health Professions	12.1
Computer & Info. Science	3.5	Foreign Languages	7.9
Fine & Applied Arts	2.9	Letters	7.0
Library Science	2.5	Theology	6.3
Business & Management	1.5	Social Science	6.2
Public Affairs & Services	0.3	Education	5.8
Engineering	0.1	Communications	5.3
		Interdisciplinary Studies	3.3
		Psychology	2.5
		Physical Sciences	1.3
		Agri. & Natural Science	0.7
		Biological Science	0.7

Bachelor's Graduates Seeking Advanced Degrees, 1976-1977

Table 5 permits comparison of the extent to which baccalaureate graduates in each major discipline pursued advanced degrees in 1976 and 1977.

Table 5

Percentage of Bachelor's Graduates Pursuing
Advanced Degrees, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Physical Sciences	49.8	52.5	2	1
Law	84.7	50.0	1	2
Biological Sciences	45.4	45.2	3	3
Theology	34.1	32.3	4	4
Interdisciplinary Studies	32.2	28.9	6	5
Foreign Languages	26.7	28.2	9	6
Social Sciences	30.0	27.2	7	7
Letters	26.5	26.8	10	8
Area Studies	32.3	26.3	5	9.5
Psychology	29.5	26.3	8	9.5
Mathematics	21.6	23.0	11	11
Fine & Applied Arts	19.6	17.7	12	12
Arch. & Environ. Design	15.6	15.8	2	13
Home Economics	8.5	14.1	19	14
Agri. & Natural Resources	14.1	12.7	15	15
Engineering	15.1	9.7	14	16
Computer & Information Science	8.4	9.2	20	17
Public Affairs & Services	13.5	9.1	16	18
Library Science	6.7	8.6	23	19
Business & Management	6.8	8.5	22	20
Education	7.3	7.8	21	21
Communications	9.9	6.7	18	22
Health Professions	12.8	5.2	17	23

Listed below are the changes in percentages of baccalaureate graduates pursuing advanced degrees between 1976 and 1977.

Increase	Per Cent	Decrease	Per Cent
Home Economics	5.6	Law	34.7
Physical Science	2.7	Health Professions	7.6
Library Science	1.9	Area Studies	6.0
Business & Management	1.7	Engineering	5.4
Foreign Languages	1.5	Public Affairs & Services	4.4
Mathematics	1.4	Interdisciplinary Studies	3.3
Computer & Info. Science	0.8	Psychology	3.2
Letters	0.3	Communications	3.2
Education	0.3	Social Science	2.8
Arch & Environ. Design	0.2	Fine & Applied Arts	1.9
		Theology	1.8
		Agri. & Natural Resources	1.4
		Biological Sciences	0.2

Bachelor's Level Employment Ranked by Major Discipline, 1974-1977

Table 6 ranks the 23 major disciplines according to the average of their full-time employment ranks over the past four years.

Table 6

Full-Time Employment Rank Comparisons for Bachelor's Degree Graduates Listed by Mean Ranking Over Time

Major Discipline	Ranks 1974	1975	1976	1977
1. Computer & Information Sciences	1	3	1	2
2. Engineering	2	4	3	3
3. Health Professions	7	5	2	1
4. Business & Management	3	7	4.5	5
5. Agriculture & Natural Resources	6	2	7	7
6. Library Science	8	6	4.5	4
7. Communications	9	1	8	10
8. Education	4	10	10	9
9. Home Economics	12	8	6	12
10. Mathematics	10	11.5	9	8
11. Public Affairs & Services	11	9	11	11
12. Architecture & Environ. Design	14	11.5	13	6
13. Theology	5	13	14	14
14. Fine & Applied Arts	16	14	15	13
15. Letters	19	15	16	16
16. Area Studies	18	22	13	17
17. Social Sciences	20	17	18	15
18. Psychology	15	19	19	18
19. Interdisciplinary Studies	17	18	20	19
20. Foreign Languages	23	16	17	20
21. Law	13	23	23	22
22. Physical Sciences	21	20	21	21
23. Biological Sciences	22	21	22	23

Implications of Full-Time Employment Rank Averages

Table 6 reveals that the first 12 major disciplines, those with the highest full-time employment rank averages, appear to prepare graduates for specific occupations typically available at the bachelor's degree entry level. The 11 remaining disciplines, ranked lowest for full-time employment, tend to be related to occupations for which master's or higher degrees are considered necessary; as a consequence, about 20 per cent more graduates in the first 12 (highest ranking) disciplines report full-time employment than do graduates of the remaining 11 lowest ranking disciplines. On the other hand, about 20 per cent more graduates of these 11 lower ranking disciplines pursue advanced degrees. The net result is a balance in terms of unemployment for both groups. Eighteen per cent of the upper ranking group and 18 per cent of the lowest ranking group reported that they were unemployed over the four-year period between 1974 and 1977. The above data are summarized as follows:

Category	Survey Years	Total Respondents	Employed		Un-employed	Pursuing Advanced Degree
			Full Time	Part Time		
			%	%	%	%
12 disciplines with highest employment rank averages	1974-77	71,964	67.2	6.5	18.3	8.0
11 disciplines with lowest employment rank averages	1974-77	34,257	47.3	4.5	18.3	29.9

Further postgraduation employment results were obtained when a large scale resurvey of 1974 bachelor's graduates was conducted two and one-half years later in 1977. Findings indicated that full-time employment increased by an overall average of 12 per cent for graduates in all major disciplines except four, in which decreases were noted.

The resurvey showed that of the 11 major disciplines ranking lowest for employment in Table 6, graduates in four disciplines increased in full-time employment by an overall average of 20 per cent. These disciplines were area studies, social sciences, foreign languages, and fine and applied arts. Full-time employment increases averaging six per cent also occurred for graduates in biology, psychology, and letters. In contrast, employment decreases averaging 10 per cent were found for graduates of theology, law, physical sciences, and interdisciplinary studies. However, at the time of the resurvey in 1977 these latter four disciplines were among the highest for the percentage of bachelor's graduates pursuing advanced degrees.

Postgraduation Status for Master's Degree Graduates

Table 7 summarizes the postgraduation status of 4,207 master's degree recipients in 23 major disciplines in 1977. Detailed data for graduates in each degree field and institutional segment are given in the Appendix. The postgraduation status for master's graduates for 1977 and 1976 is highlighted below. These figures confirm the high proportion of full-time employed master's graduates who are employed in their field of preparation each year.

Year	Responding Grads.	Employed		Un-employed	Pursuing Advanced Degree	Of Full-Time Employed	
		Full Time	Part Time			Employed in Field Prepared	Employed in Pa.
		%	%	%	%	%	%
1976	4,153	81.0	2.0	7.3	9.7	90.5	75.7
1977	4,207	79.6	3.7	6.7	10.0	90.6	76.8

Table 7

Employment Status by Major Discipline for Master's Degree Recipients for All Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part Time	Un-unemployed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Agriculture & Natural Resources Resources	23	5 (21.7)	3 (13.0)	-	1 (4.3)	1 (4.3)	2 (8.7)	11 (47.8)
Architecture and Environmental Design	26	11 (42.3)	9 (34.6)	2 (7.7)	1 (3.8)	-	1 (3.8)	2 (7.7)
Area Studies	6	-	-	2 (33.3)	-	-	3 (50.0)	1 (16.6)
Biological Sciences	99	36 (36.4)	18 (18.2)	5 (5.1)	2 (2.0)	3 (3.0)	9 (9.1)	26 (26.3)
Business and Management	548	286 (52.2)	156 (28.5)	30 (5.5)	8 (1.5)	6 (1.1)	29 (5.3)	33 (6.0)
Communications	42	15 (35.7)	12 (28.6)	4 (9.5)	3 (7.1)	1 (2.4)	4 (9.5)	3 (7.1)
Computer and Information Sciences	27	10 (37.0)	12 (44.4)	1 (3.7)	-	-	-	4 (14.8)
Education	2,159	1,463 (67.8)	207 (9.6)	122 (5.6)	21 (1.0)	75 (3.5)	122 (5.6)	149 (6.9)
Engineering	246	90 (36.6)	93 (37.8)	3 (1.2)	5 (2.0)	-	5 (2.0)	50 (20.3)
Fine and Applied Arts	76	30 (39.5)	13 (17.1)	8 (10.5)	-	14 (18.4)	7 (9.2)	4 (5.3)
Foreign Languages	32	7 (21.9)	4 (12.5)	1 (3.1)	3 (9.4)	4 (12.5)	3 (9.4)	10 (31.3)
Health Professions	126	61 (48.4)	19 (15.1)	7 (5.6)	5 (4.0)	8 (6.3)	15 (11.9)	11 (8.7)
Home Economics	15	1 (6.7)	3 (20.0)	-	-	-	1 (6.7)	10 (66.6)
Law	20	17 (85.0)	1 (5.0)	-	2 (10.0)	-	-	-
Letters	83	27 (32.5)	5 (6.0)	9 (10.8)	4 (4.8)	13 (15.7)	6 (7.2)	19 (22.9)
Library Science	39	18 (46.2)	4 (10.2)	4 (10.2)	2 (5.1)	4 (10.3)	6 (15.4)	1 (2.6)
Mathematics	59	24 (40.7)	15 (25.4)	4 (6.8)	1 (1.6)	1 (1.6)	5 (8.5)	9 (15.3)
Physical Sciences	80	26 (32.5)	22 (27.5)	4 (5.0)	3 (3.7)	1 (1.2)	7 (8.8)	17 (21.3)
Psychology	81	34 (41.9)	5 (6.2)	6 (7.4)	3 (3.7)	5 (6.2)	6 (7.4)	22 (27.2)
Public Affairs and Services	254	103 (40.6)	76 (29.9)	17 (6.7)	9 (3.5)	6 (2.4)	32 (12.6)	11 (4.3)
Social Sciences	137	55 (40.1)	14 (10.2)	7 (5.1)	3 (2.2)	12 (8.8)	17 (12.4)	29 (21.2)
Theology	9	4 (44.4)	5 (55.6)	-	-	-	-	-
Interdisciplinary Studies	20	11 (55.0)	4 (20.0)	2 (10.0)	-	-	3 (15.0)	-
GRAND TOTAL	4,207	2,334 (55.5)	700 (16.6)	238 (5.7)	76 (1.8)	154 (3.7)	283 (6.7)	422 (10.0)

Full-Time Employment for Master's Degree Graduates

The relative success of master's graduates in obtaining full-time employment is indicated in Table 8. In this table graduates in each major discipline are ranked from high to low according to the proportion of graduates in each discipline with full-time employment. That law and theology rank highest is due chiefly to the small number of respondents, in these categories, all with full-time employment.

These full-time employment results can be examined in at least two ways: (1) by taking these results at their face value in portraying postgraduation activities, and (2) by comparing the relative employment success of graduates at different degree levels. In the latter case, as given in Table 8, such a comparison of bachelor's graduates with master's graduates gives a follow-up dimension.

Table 8

Percentage of Master's Graduates of 1977 with Full-Time Employment Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977

Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.	Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.
Law	100.0	22	1.5	Library Sci.	71.7	4	13
Theology	100.0	14	1.5	Physical Sci.	68.7	21	14
Arch. & Environ. Des.	88.4	6	3	Fine & App. Arts	67.1	13	15
Business & Management	87.7	5	4	Biological Sci.	61.7	23	16
Computer & Info. Sci.	85.1	2	5	Psychology	59.2	18	17
Interdisciplinary Stu.	85.0	19	6	Social Sciences	57.6	15	18
Education	84.0	9	7	Letters	54.1	16	19
Communications	80.9	10	8	Foreign Lang.	46.9	20	20
Public Aff. & Ser.	80.7	11	9	Agri. & Nat. Res.	39.0	7	21
Engineering	77.6	3	10	Area Studies	33.3	17	22
Mathematics	74.5	9	11	Home Economics	26.7	12	23
Health Prof.	73.1	1	12				

Master's Graduates Employed in Their Field of Preparation

Of master's graduates with full-time employment, Table 9 ranks the proportion in each major discipline who are employed in their field of preparation. Comparable ranks for baccalaureate graduates are included in Table 9. By using both rankings it is possible to compare the baccalaureate and master's graduates. For example, baccalaureate graduates in business rank rather low in terms of being able to find employment in their field of preparation, but they rank much higher in this respect at the master's level.

Table 9

Percentage of Full-Time Employed Master's Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977

Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.	Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.
Theology	100.0	17	1.5	Social Sciences	87.3	20	12.5
Home Economics	100.0	12	1.5	Physical Sci.	87.2	9	14
Engineering	95.8	4	3	Health Prof.	87.0	2	15
Comp. & Info. Sci.	95.7	3	4	Arch. & Environ. Des.	86.9	8	16
Education	92.1	11	5	Fine & App. Arts	84.3	15	17
Business & Mgt.	92.0	15	6	Psychology	81.3	18	18
Law	90.0	1	7	Communications	79.4	13	19
Agri. & Nat. Res.	88.9	10	8	Library Science	78.6	6	20
Mathematics	88.6	7	9	Foreign Lang.	73.3	22	21
Biological Sci.	88.5	15	10	Letters	71.1	21	22
Interdis. Studies	88.2	19	11	Area Studies	0.0	23	23
Pub. Aff. & Ser.	87.3	14	12.5				

Master's Graduates Employed in Pennsylvania

Of those with full-time employment, Table 10 shows the proportion and rank of master's degree graduates in each discipline who accepted employment in Pennsylvania in 1977. Proportions and ranks from the comparable baccalaureate table for 1977 are included in Table 10. By including bachelor's-level rankings, it is possible to compare the proportions of baccalaureate and master's graduates in each major discipline who accepted full-time employment in Pennsylvania in 1977. For instance, bachelor's level graduates of the degree field "public affairs and services" rank high with respect to employment in Pennsylvania, but master's level graduates rank much lower in this category.

Table 10

Percentage of Full-Time Employed Master's Graduates Employed in Pennsylvania, Ranked by Major Discipline, Includes Comparable Bachelor's Ranks, 1977

Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.	Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.
Area Studies	100.0	21	1	Mathematics	63.6	12	13
Education	87.4	5	2	Pub. Aff. & Ser.	58.5	3	14
Law	85.0	1	3	Arch. & Environ. Des.	56.5	18	15
Psychology	83.3	8	4	Communications	55.9	11	16
Letters	80.0	15	5	Agri. & Nat. Res.	55.6	17	17
Library Sci.	78.6	4	6	Physical Sci.	54.5	19	18
Social Sciences	78.5	14	7	Foreign Lang.	53.3	20	19
Interdis. Studies	76.5	13	8	Engineering	48.7	23	20
Fine & App. Arts	74.5	16	9	Comp. & Info. Sci.	47.8	9	21
Health Prof.	73.9	2	10	Theology	44.4	22	22
Biological Sci.	67.2	10	11	Home Economics	25.0	6	23
Business & Mgt.	65.8	7	12				

Master's Graduates Who Pursue Advanced Degrees

Table 11 ranks the major disciplines by the proportion of master's graduates in each major discipline who pursued advanced degrees in 1977, Comparable proportionate ranks are included for baccalaureate graduates pursuing advanced degrees in 1977. These comparisons show some interesting insights, For instance, relatively few home economics majors enter master's programs, but of those that do, a high proportion go on to a doctoral degree,

Table 11

Percentage of Master's Graduates Pursuing Advanced Degrees
Ranked by Major Discipline; Includes Comparable Bachelor's Ranks, 1977

Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.	Major Discipline	Per Cent	Rank Bach.	Rank Mstrs.
Home Economics	66.6	14	1	Health Prof,	8.7	23	13
Agri. & Nat. Res,	47.8	15	2	Arch. & Environ. Des.	7.7	13	14
Foreign Lang.	31.3	6	3	Communications	7.1	22	15
Psychology	27.2	9,5	4	Education	6.9	21	16
Biological Sci.	26.3	3	5	Business & Mgt.	6.0	20	17
Letters	22.9	8	6	Fine & App. Arts	5.3	12	18
Physical Sci.	21.3	1	7	Public Aff. & Ser.	4.3	18	19
Social Sci.	21.2	7	8	Library Sci.	2.6	19	20
Engineering	20.3	16	9	Law	0.0	2	22
Area Studies	16.6	9,5	10	Theology	0.0	2	22
Mathematics	15.3	11	11	Interdis. Studies	0.0	5	22
Comp. & Info. Sci.	14.8	17	12				

Postgraduation Status for Doctoral Graduates

Table 12 gives the postgraduation outcomes for 500 persons receiving doctoral degrees from Pennsylvania institutions in 1977. A brief overview of the postgraduation status for doctoral graduates in 1976 and 1977 follows:

Year	Responding Grads.	Employed Full Time	Employed Part Time	Un-employed	Pursuing Advanced Degree	Of Full-Time Employed in Field Prepared	Of Full-Time Employed in Pa.
		%	%	%	%	%	%
1976	453	86.9	1.8	5.3	6.0	93.7	44.4
1977	500	90.8	3.6	4.2	1.4	90.3	57.0

Full-Time Employment for Doctoral Graduates

Table 13 ranks each major discipline according to the percentage of doctoral graduates with full-time employment in 1977. Low return rates for several major disciplines may result in unduly high employment percentages in such colleges. It is evident that doctoral graduates as a whole enjoy high rates of full-time employment. Employment continues to be high for doctoral graduates in business, computer science, and library science. Graduates of letters and psychology at all three degree levels appear to have relatively greater difficulty than others in gaining full-time employment.

Table 12

Employment Status by Major Discipline for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Agriculture and Natural Resources	10	1 (10.0)	8 (80.0)	-	-	-	1 (10.0)	-
Biological Sciences	46	14 (30.4)	22 (47.8)	3 (6.5)	-	2 (4.4)	2 (4.4)	3 (6.5)
Business and Management	14	2 (14.3)	11 (78.6)	-	1 (7.1)	-	-	-
Computer Sciences	9	2 (22.2)	7 (77.7)	-	-	-	-	-
Education	161	103 (64.0)	23 (14.3)	24 (14.9)	1 (0.6)	5 (3.1)	4 (2.5)	1 (0.6)
Engineering	46	20 (43.5)	24 (52.2)	-	-	-	2 (4.3)	-
Fine and Applied Arts	14	7 (50.0)	4 (28.6)	-	-	1 (7.1)	2 (14.3)	-
Foreign Languages	10	6 (60.0)	2 (20.0)	1 (10.0)	-	-	1 (10.0)	-
Health Professions	7	4 (57.1)	2 (28.6)	-	-	1 (14.3)	-	-
Home Economics	3	2 (66.7)	1 (33.3)	-	-	-	-	-
Letters	24	9 (37.5)	6 (25.0)	4 (16.6)	1 (4.2)	3 (12.5)	1 (4.2)	-
Library Science	2	2 (100.0)	-	-	-	-	-	-
Mathematics	16	6 (37.5)	9 (56.3)	-	-	-	-	1 (6.2)
Physical Sciences	55	21 (38.2)	28 (50.9)	2 (3.6)	-	2 (3.6)	1 (1.8)	1 (1.8)
Psychology	21	8 (38.1)	8 (38.1)	-	1 (4.8)	-	3 (14.2)	1 (4.8)
Public Affairs and Services	9	2 (22.2)	6 (66.7)	-	-	1 (11.1)	-	-
Social Sciences	51	10 (19.6)	28 (54.9)	4 (7.8)	2 (3.9)	3 (5.9)	4 (7.8)	-
Theology	1	1 (100.0)	-	-	-	-	-	-
Interdisciplinary Studies	1	1 (100.0)	-	-	-	-	-	-
GRAND TOTAL	500	221 (44.2)	189 (37.8)	38 (7.6)	6 (1.2)	18 (3.6)	21 (4.2)	7 (1.4)

Table 13

Percentage of Doctoral Graduates with Full-Time Employment, Ranked by Major Discipline, Includes Comparable Bachelor's and Master's Ranks, 1977

Major Discipline	Per Cent	Rank		
		Bacc.*	Mstrs.*	Doctoral
Business & Management	100.0	5	2	3.5
Computer & Info. Science	100.0	2	3	3.5
Home Economics	100.0	10	19	3.5
Interdisciplinary Studies	100.0	16	4	3.5
Library Science	100.0	4	10	3.5
Theology	100.0	12	1	3.5
Engineering	95.7	3	7	7
Mathematics	93.8	7	8	8.5
Education	93.8	8	5	8.5
Physical Sciences	92.7	18	11	10
Agri. & Natural Res.	90.0	6	18	11.5
Foreign Languages	90.0	17	17	11.5
Public Affairs & Service	88.9	9	6	13
Social Sciences	86.2	13	15	14
Health Professions	85.7	1	9	15
Biological Sciences	84.7	19	13	16
Letters	83.3	14	16	17
Psychology	81.0	15	14	18
Fine & Applied Arts	78.6	11	12	19

*Reranked for those areas for which bachelor's, master's and doctoral data are available.

Doctoral Graduates Employed in Their Field of Preparation

Table 14 shows the high proportion of employed doctoral graduates working in their field of preparation. Examination of these proportions and ranks of graduates among the various disciplines indicates the high probability of doctoral degree recipients being employed in their field of preparation. Comparison of the rankings shows that graduates in such major disciplines as letters, social sciences, and foreign languages have relatively more difficulty in finding employment in their field of preparation than others.

Table 14

Percentage of Full-Time Employed Doctoral Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, Includes Comparable Bachelor's, Master's Ranks, 1977

Major Discipline	Per Cent	Rank		
		Bach.*	Mstrs.*	Doctoral
Agriculture & Natural Res.	100.0	8	7	5.5
Computer & Information Sci.	100.0	2	4	5.5
Engineering	100.0	3	3	5.5
Health Professions	100.0	1	14	5.5
Home Economics	100.0	10	2.5	5.5
Interdisciplinary Studies	100.0	16	10	5.5
Library Science	100.0	5	17	5.5
Theology	100.0	14	1.5	5.5
Mathematics	100.0	6	8	5.5
Public Affairs & Ser.	100.0	11	11.5	5.5
Physical Sciences	96.1	7	13	11
Psychology	95.0	15	16	12
Business & Management	92.9	4	6	13
Biological Sciences	92.3	13	9	14
Fine & Applied Arts	91.7	12	15	15
Foreign Languages	88.9	19	18	16
Social Sciences	84.4	17	11.5	17
Education	83.0	9	5	18
Letters	75.0	18	19	19

*Reranked for those areas for which bachelor's, master's and doctoral data are available.

Doctoral Graduates Employed in Pennsylvania

Table 15 shows the proportion of full-time employed doctoral graduates employed in Pennsylvania. A pattern evident in this table is for library science and education graduates at all three degree levels to become employed in Pennsylvania, while for graduates of the physical sciences and agriculture there is a notable tendency toward out-of-state employment.

Table 15

Percentage of Full-Time Employed Doctoral Graduates Employed in Pennsylvania, Ranked by Major Discipline Includes Comparable Bachelor's and Master's Ranks, 1977

Major Discipline	Per Cent	Rank		
		Bach.*	Mstrs.*	Doctoral
Interdisciplinary Studies	100.0	11	6	2
Theology	100.0	18	18	2
Library Science	100.0	3	4	2
Education	84.1	4	1	4
Engineering	83.3	19	16	5
Foreign Languages	77.8	17	15	6
Health Professions	66.7	1	8	7.5
Home Economics	66.7	5	19	7.5
Letters	65.0	13	3	9
Fine and Applied Arts	63.6	14	7	10
Psychology	47.1	7	2	11
Physical Sciences	45.1	16	14	12
Biological Sciences	43.6	9	9	13
Mathematics	40.0	12	5	14
Public Affairs & Services	25.0	2	12	15
Computer & Info. Sciences	22.2	8	17	16
Social Sciences	18.7	12	5	17
Business & Management	14.3	6	10	18
Agri. & Natural Sci.	11.1	15	13	19

*Reranked for those areas for which bachelor's, master's and doctoral data are available.

Doctoral Graduates Pursuing Advanced Study

Seven of the 500 doctoral graduates are noted in Table 12 as pursuing advanced degrees. Three of these majored in biological sciences, while the remaining four doctoral graduates majored in education, mathematics, physical sciences, and psychology. Some graduates of these same four disciplines, with the addition of social studies, were reported as pursuing advanced degrees in the 1976 postgraduation activities study.

Postgraduation Status of First-Professional Degree Graduates

Table 16 gives the postgraduation status of 2,645 graduates of first-professional degree programs in Pennsylvania institutions. It can be seen that employment of first-professional degree graduates is high, that most are employed in their field of preparation, and a high percentage are employed outside Pennsylvania.

Year	Responding Grads.	Employed		Un-employed	Pursuing Advanced Degree	Of Full-Time Employed	
		Full Time	Part Time			Employed in Field Prepared	Employed in Pa.*
		%	%	%	%	%	%
1976	2,593	92.6	1.3	1.9	4.2	98.6	60.5
1977	2,645	91.9	0.5	2.2	5.4	96.4	57.1

*See Table 19 footnote.

Table 16

Employment Status by Major Discipline for First-Professional Degree Recipients for All Institutions in Pennsylvania, 1977

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Dentistry (D.D.S. or D.M.D. degree)	246	156 (63.4)	63 (25.6)	-	-	-	-	27 (11.0)
Medicine, M.D. degree	1,020	434 (42.5)	484 (47.5)	-	1 (0.1)	-	-	101 (9.9)
Optometry (O.D. degree)	94	42 (44.7)	49 (52.1)	-	-	-	3 (3.2)	-
Osteopathic medicine (D.O. degree)	214	108 (50.5)	106 (49.5)	-	-	-	-	-
Podiatry (Pod.D., D.P.,) or Podiatric Medicine (D.P.M.) (Include chiropody)	95	44 (46.3)	51 (53.7)	-	-	-	-	-
Law, general (LL.B. or J.D. Degree)	971	544 (56.0)	258 (26.6)	60 (6.2)	26 (2.7)	13 (1.3)	54 (5.6)	16 (1.6)
Other (Pharmacy)	5	-	5 (100.0)	-	-	-	-	-
GRAND TOTAL	2,645	1,328 (50.2)	1,016 (38.4)	60 (2.3)	27 (1.0)	13 (0.5)	57 (2.2)	144 (5.4)

Full-Time Employment for First-Professional Degree Graduates, 1976-1977

Table 17 ranks the major fields according to the percentage of first-professional graduates in each field with full-time employment.

Table 17

Percentage of First-Professional Degree Graduates with Full-Time Employment, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Osteopathy	100.0	100.0	1.5	1.5
Podiatry	100.0	100.0	1.5	1.5
Optometry	86.5	96.8	5	3
Medicine (M.D.)	99.9	90.0	3	4
Dentistry	72.1	89.0	6	5
Law	92.8	82.6	4	6

First Professional Graduates Employed in Field of Preparation, 1976-1977

Table 18 ranks each major discipline in terms of the percentage of fully employed graduates having employment in their professional specialty.

Table 18

Percentage of Full-Time Employed First-Professional Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Dentistry	100.0	100.0	2.5	2.5
Optometry	99.0	100.0	5	2.5
Osteopathy	100.0	100.0	2.5	2.5
Podiatry	100.0	100.0	2.5	2.5
Medicine (M.D.)	100.0	99.9	2.5	5
Law	96.2	90.3	6	6

First-Professional Graduates Employed in Pennsylvania, 1976-1977

Table 19 compares the percentage of fully employed first-professional graduates employed in Pennsylvania shortly after their graduation.

Table 19

Percentage of Full-Time Employed First-Professional Degree Graduates Employed in Pennsylvania Ranked by Major Discipline, 1976-1977*

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Dentistry	60.2	71.2	2	1
Law	70.7	67.8	1	2
Osteopathy	52.2	50.5	5	3
Medicine (M.D.)	55.2	47.2	4	4
Podiatry	56.3	46.3	3	5
Optometry	42.2	46.2	6	6

*Internships and federal service lead to relatively high percentages of out-of-state initial employment. The American Osteopathic Association, for instance, requires AOA approved internship programs out of state for specialists in their field.

First-Professional Graduates Who Pursue Advanced Degrees

First-professional graduates in the three following areas pursued advanced studies shortly after graduation: dentistry (11.0 per cent), medicine (9.9 per cent) and law (1.6 per cent). These data are noted in Table 16, page 18.

Postgraduation Status for Associate Degree Recipients

The postgraduation activities results given in Table 20 represent 8,589 associate degree graduates from all types of Pennsylvania institutions in 1977. Highlighted below is the postgraduation status of associate degree graduates in 1976 and 1977.

Year	Responding Grads.	Employed		Un-employed	Pursuing Advanced Degree	Of Full-Time Employed	
		Full Time	Part Time			Employed in Field Prepared	Employed in Pa.
		%	%	%	%	%	%
1976	8,687	60.3	2.0	8.4	29.2	86.3	90.5
1977	8,589	67.7	3.8	6.1	22.4	87.4	88.3

Full-Time Employment for Associate Degree Graduates, 1976-1977

In Table 21 the success of associate degree graduates in each major discipline in obtaining full-time employment is ranked from high to low. When compared with data for 1976, full-time employment was up in 1977 for graduates in five of the seven major disciplines.

Table 20

Employment Status by Major Discipline for Associate Degree Recipients for All Institutions in Pennsylvania, 1977

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed-	Pursuing Advanced Degree
Data Processing Technologies	366	227 (62.2)	46 (12.5)	38 (10.3)	8 (2.2)	4 (1.1)	10 (2.7)	33 (9.0)
Health Services & Para-Medical Technologies	1,425	1,087 (76.3)	49 (3.4)	47 (3.3)	2 (0.1)	58 (4.1)	80 (5.6)	102 (7.2)
Mechanical & Engineering Technologies	1,992	1,061 (53.3)	346 (17.4)	158 (7.9)	13 (0.7)	31 (1.5)	128 (6.4)	255 (12.8)
Natural Science Technologies	262	104 (39.7)	18 (6.8)	56 (21.4)	3 (1.2)	14 (5.3)	27 (10.3)	40 (15.3)
Business & Commerce Technologies	2,167	1,291 (59.6)	121 (5.6)	166 (7.6)	15 (0.7)	71 (3.3)	162 (7.5)	341 (15.7)
Public Service-Related Technologies	664	296 (44.5)	19 (2.9)	79 (11.9)	1 (0.1)	41 (6.2)	37 (5.6)	191 (28.8)
Arts and Science Transfers	1,713	392 (22.9)	22 (1.3)	130 (7.6)	17 (1.0)	107 (6.3)	76 (4.4)	969 (56.5)
GRAND TOTAL	8,589	4,458 (51.9)	621 (7.2)	674 (7.9)	59 (0.7)	326 (3.8)	520 (6.1)	1,931 (22.4)

Table 21

Percentage of Associate Degree Graduates, with Full-Time Employment, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Data Processing Tech.	68.7	87.2	5	1
Health Ser. & Para-Med. Tech.	82.8	83.1	1	2
Mechanical & Engineering Tech.	69.4	79.3	4	3
Business & Comm. Tech.	71.6	73.5	2	4
Natural Science Tech.	69.7	69.1	3	5
Public Service-Related Tech.	59.4	59.4	6	6
Arts & Science Transfers	17.7	32.8	7	7

Percentage Changes in Full-Time Employment, Associate Level, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Data Processing Tech.	18.5	Natural Sci. Tech.	0.6
Arts & Science Transfers	15.1		
Mechanical & Engineering Tech.	9.9		
Business & Comm. Tech.	1.9		
Health Ser. & Para-Med. Tech.	0.3		

No Change: Public Service Related Tech.

Associate Degree Graduates Employed in Their Field of Preparation, 1976-1977

Of graduates with full-time employment, Table 22 gives the percentage having full-time employment in their fields of preparation after graduation in 1976 and 1977.

Table 22

Percentage of Full-Time Employed Associate Degree Graduates Employed in Their Field of Preparation, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Health Ser. & Para-Med. Tech.	96.3	95.9	1	1
Mech. & Engineering Tech.	84.6	89.2	3	2
Business & Comm. Tech.	88.8	88.6	2	3
Data Processing Tech.	84.4	85.6	4	4
Public Service Related Tech.	81.5	79.7	5	4
Arts & Science Transfers	62.7	73.8	6	6
Natural Science Tech.	59.8	67.4	7	7

Increases and decreases in associate level graduates' employment in their fields of preparation between 1976 and 1977 are as follows:

Percentages Changes in Employment in Field of Preparation, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Arts & Science Transfers	11.1	Public Ser. & Related Tech.	1.8
Natural Science Tech.	7.6	Health Ser. & Para-Med. Tech.	0.4
Mechanical & Engineering Tech.	4.6	Business & Comm. Tech.	0.2
Data Processing Tech.	1.2		

Associate Degree Graduates Employed in Pennsylvania, 1976-1977

Table 23 represents the percentage and ranks of all employed associate degree graduates employed in Pennsylvania in 1976 and 1977. This table shows declines in employment in Pennsylvania for graduates in all major disciplines except health and public service.

Table 23

Percentage of Full-Time Employed Associate Degree Graduates Employed in Pennsylvania, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Health Ser. & Para-Med. Tech.	94.8	95.7	3	1
Public Service-Related Tech.	94.1	94.9	4	2
Arts & Science Transfers	98.1	93.0	1	3
Business & Comm. Tech.	95.2	91.5	2	4
Natural Science Tech.	91.5	88.4	5	5
Data Processing Tech.	90.5	83.1	6	6
Mechanical & Engineering Tech.	78.8	77.2	7	7

The lists below show the changes in the percentage of associate degree graduates employed in Pennsylvania over the one-year period between 1976 and 1977.

Changes in Associate Level Employment in Pennsylvania 1976-1977

Increase	Per Cent	Decrease	Per Cent
Health Ser. & Para-Med. Tech.	0.9	Data Processing Tech.	7.4
Public Services-Related Tech.	0.8	Arts & Science Transfers	5.1
		Business & Comm. Tech.	3.7
		Natural Science Tech.	3.1
		Mech. & Engineering Tech.	1.6

Associate Degree Graduates Pursuing Advanced Degrees, 1976-1977

Table 24 ranks the percentage of associate degree graduates who in 1976 and 1977 pursued advanced degrees. This table shows declines in those graduates pursuing advanced degrees in all major disciplines except public service-related technologies.

Table 24

Percentage of Associate Degree Graduates Pursuing Advanced Degrees, Ranked by Major Discipline, 1976-1977

Major Discipline	Per Cent		Rank	
	1976	1977	1976	1977
Arts & Science Transfers	77.5	56.5	1	1
Public Service-Related Tech.	26.8	28.8	2	2
Business & Comm. Tech.	16.6	15.7	4	3
Natural Sciences Tech.	16.1	15.3	5	4
Mechanical & Engineering Tech.	17.2	12.8	3	5
Data Processing Tech.	12.9	9.0	6	6
Health Ser. & Para-Med. Tech.	10.1	7.2	7	7

Listed below are the changes in the percentage of associate degree graduates pursuing advanced degrees shortly after their graduation in 1976 and 1977.

Changes in Associate Graduates Pursuing Advanced Degrees, 1976-1977

Increase	Per Cent	Decrease	Per Cent
Public Service-Related Tech.	2.0	Arts & Science Transfers	21.0
		Mechanical & Engineering Tech.	4.4
		Data Processing Tech.	3.9
		Business & Comm. Tech.	0.9
		Natural Sciences Tech.	0.8

CONCLUSIONS

1. Full-time employment was generally better in 1977 than in 1976 for graduates at the associate, bachelor's and doctoral degree levels. Employment decreased slightly at the master's and first-professional levels; the latter decrease due chiefly to increases in those pursuing advanced degrees.

   Both the bachelor's increases in employment and the slight employment decreases for master's graduates are reflected in a College Placement Council study: CPC Salary Survey, Report No. 1, January 1978. This study indicates 33 per cent more job offers to bachelor's candidates, but 20 per cent fewer offers to master's candidates in 1977. The CPC reports the consensus of 700 employers is that the hiring of college graduates in 1977 increased 18 per cent over the previous year. The disciplines with notable employment gains correspond to those with the highest percentages of employment reported in this study, such as health, computer sciences, engineering, business, mathematics, and technical disciplines, such as agriculture.

   As to relatedness, CPC reports that the vast majority of baccalaureate graduates across the nation has some use for their college subjects and that 45 per cent almost always use their major discipline in their work. In the present Pennsylvania postgraduation activities report, of those with full-time employment, 75.5 felt they were employed in the field for which they were prepared.

CONCLUSIONS
(continued)

2. When the major disciplines are ranked according to the percentage of graduates in each major discipline with full-time employment, the top 12 disciplines which rank high for employment rank low for those pursuing advanced degrees. These 12 disciplines tend to prepare students for bachelor's degree entry level jobs. Conversely, the 11 remaining disciplines which rank low for initial employment and high for those pursuing advanced degrees, tend to be related to occupations for which master's or higher degrees are considered necessary. The net effect is that both groups average the same unemployment rate of 18.3 per cent as averaged over a four-year period.

   A resurvey of Pennsylvania's bachelor's graduates of 1974 showed that full-time employment increased over a two and one-half year period by an overall average of 12 per cent for graduates in 19 of the 23 disciplines, Large to moderate employment gains were also made over the resurvey period by bachelor's graduates in most of the major disciplines consistently ranking low in initial employment. Several disciplines which illustrate some increases in employment and consequently increases in rank position are area studies, social studies, and foreign languages.

   Several questions are raised by the fact that the major disciplines ranking low for initial employment rank high in the proportion of graduates pursuing advanced degrees: (1) What percentage of these graduates are pursuing additional degree requirements needed to advance their professional preparation, and what percentage may be retreating from a sluggish job market in their fields? (2) Do the graduates have sufficient skills in seeking employment, and do they institute their search for employment sufficiently early?

3. This study shows that at the master's, doctoral and first-professional degree levels the proportion of graduates with full-time employment ranges from 80 to 92 per cent. This refutes the conventional wisdom that large numbers of such graduates are unemployed.

4. Eighty-one per cent of all full-time employed graduates of all degree levels in 1977 were reported as being employed in their fields of preparation.

5. Seventy-three per cent of all full-time employed graduates were employed in Pennsylvania.

6. The relatively higher percentage of associate, bachelor's and master's graduates employed in Pennsylvania is due to their degrees having a higher regional demand in contrast to doctoral and first-professional level graduates, who tend to go where internships in their specialties are available, or where there is a demand for their professional specialty--which may be in the national or international market.

7. Generally Pennsylvania's higher educational institutions are successfully enhancing the value of students to society.

APPENDICES

The tables in the Appendix supplement those in the text. The 25.0 table series gives the survey response data for graduates in each major discipline, degree level, and category of institution. Table series 26.0 through 29.0 gives postgraduation employment status data for graduates in each major discipline, degree level, and institutional type. Postgraduation information is given by degree field and institutional category for bachelor's, master's, doctoral, and associate degree graduates in series 30.0 through 33.0.

Table 25.0

Number of Returns Received from Four-Degree Levels of Graduates Compared with the Number of Graduates for All Institutions by Major Discipline, 1977

Major Discipline	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
Agriculture and Natural Resources	931	633 (68.0)	861	600 (69.7)	54	23 (42.6)	16	10 (62.5)	-	-
Architecture and Environmental Design	393	127 (32.3)	190	101 (53.2)	199	26 (13.1)	4	-	-	-
Area Studies	172	44 (25.6)	126	38 (30.2)	33	6 (18.2)	13	-	-	-
Biological Sciences	3,660	1,781 (48.7)	3,242	1,636 (50.5)	286	99 (34.6)	132	46 (34.9)	-	-
Business and Management	11,436	5,506 (48.2)	9,222	4,944 (53.6)	2,164	548 (25.3)	50	14 (28.0)	-	-
Communications	981	506 (51.6)	875	464 (53.0)	103	42 (40.8)	3	-	-	-
Computer and Information Sciences	428	274 (64.0)	307	238 (77.5)	101	27 (26.7)	20	9 (45.0)	-	-
Education	15,765	10,205 (64.7)	9,431	7,889 (83.7)	5,928	2,159 (36.4)	406	161 (39.7)	-	-
Engineering	4,013	2,022 (50.4)	3,001	1,730 (57.7)	867	246 (28.4)	145	46 (31.7)	-	-
Fine and Applied Arts	2,285	888 (38.9)	1,964	799 (40.7)	284	76 (26.8)	37	14 (37.8)	-	-
Foreign Languages	1,070	361 (33.7)	861	319 (37.1)	167	32 (19.2)	42	10 (23.8)	-	-
Health Professions	5,672	3,155 (55.6)	3,176	1,349 (42.5)	452	126 (27.9)	44	7 (15.9)	2,000	1,674 (83.7)
Home Economics	916	464 (50.7)	848	446 (52.6)	58	15 (25.9)	10	3 (30.0)	-	-
Law	1,257	999 (79.5)	19	8 (42.1)	66	20 (30.3)	1	-	1,171	971 (82.9)
Letters	3,370	1,102 (32.7)	2,758	995 (36.1)	488	83 (17.0)	124	24 (19.4)	-	-
Library Science	559	169 (30.2)	115	128 (100.0)	433	39 (9.0)	11	2 (18.2)	-	-
Mathematics	1,242	575 (46.3)	1,046	500 (47.8)	170	59 (34.7)	26	16 (61.5)	-	-
Physical Sciences	2,246	1,030 (45.9)	1,801	896 (49.8)	270	80 (29.6)	175	55 (31.4)	-	-
Psychology	3,106	1,399 (45.0)	2,755	1,293 (46.9)	279	81 (29.0)	72	21 (29.2)	-	-
Public Affairs and Services	3,260	1,544 (47.4)	2,255	1,281 (56.8)	955	254 (26.6)	50	9 (18.0)	-	-
Social Sciences	7,952	3,067 (38.6)	7,125	2,879 (40.4)	628	137 (21.8)	199	51 (25.6)	-	-
Theology	912	171 (18.8)	363	161 (44.4)	151	9 (6.0)	45	1 (2.2)	353	-
Interdisciplinary Studies	1,553	467 (30.1)	1,494	446 (29.9)	53	20 (37.7)	6	1 (16.7)	-	-
GRAND TOTAL	73,179	36,489 (49.9)	53,835	29,140 (54.1)	14,189	4,207 (29.7)	1,631	500 (30.7)	3,524	2,645 (75.1)

Table 25.1

Number of Returns Received from Graduates at Four-Degree Levels as Compared with the Number of Graduates for All Institutions Within Institutional Categories in Pennsylvania, 1977

Institutional Categories	All Degrees		Bachelor's		Master's		Doctoral		First Prof.	
	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns	No. of Grads.	No. of Returns
State-Owned	16,180	11,050 (68.3)	13,016	9,503 (73.0)	3,162	1,547 (48.9)	2	-	-	-
State-Related	22,225	11,571 (52.1)	15,270	8,191 (53.6)	4,815	1,914 (39.8)	992	371 (37.4)	1,148	1,095 (95.4)
State-Aided	8,427	2,120 (25.2)	4,166	736 (17.7)	2,217	15 (0.7)	381	12 (3.1)	1,663	1,357 (81.6)
Private Colleges, Universities	25,851	11,749 (45.4)	21,368	10,708 (50.1)	3,880	731 (18.8)	212	117 (55.2)	391	193 (49.4)
GRAND TOTAL	72,683	36,490 (50.2)	53,820	29,138 (54.1)	14,074	4,207 (29.9)	1,587	500 (31.5)	3,202	2,645 (82.6)

Table 25,2

Number of Returns Received for Associate Degree Graduates Compared with the Number of Graduates for All Such Institutions by Major Discipline, 1977

Major Discipline	Associate Degrees Awarded in Pennsylvania, 1977*	Number of Returns	Per Cent of Returns
Data Processing Technologies	548	366	66.8
Health Services & Para-Medical Technologies	1,823	1,425	78.2
Mechanical & Engineering Technologies	2,799	1,992	71.2
Natural Sciences Technologies	345	262	75.9
Business & Commerce Technologies	3,811	2,167	56.9
Public Service-Related Technologies	1,190	664	55.8
Arts and Science Transfers	4,101	1,713	41.8
GRAND TOTAL	14,617	8,589	58.8

*Not included: Graduates of Private Junior Colleges and Thaddeus Stevens State School of Technology.

Table 25.3

Number of Returns Received for Associate Degree Graduates Compared with the Number of Graduates for All Such Institutions by Institutional Category, 1977

Institutional Category	Associate Degrees Awarded in Pennsylvania, 1977	Number of Returns	Per Cent of Returns
Community Colleges	8,189	5,738	70.1
Colleges & Universities	3,289	1,112	33.8
Proprietary Institutions	3,139	1,739	55.4
GRAND TOTAL	14,617	8,589	58.8

Table 26.0

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Owned Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree
Agriculture and Natural Resources	20	2 (10.0)	-	4 (20.0)	1 (5.0)	-	10 (50.0)	3 (15.0)
Architecture and Environmental Design	11	5 (45.4)	2 (18.2)	-	1 (9.1)	-	1 (9.1)	2 (18.2)
Area Studies	7	1 (14.3)	-	1 (14.3)	-	-	5 (71.4)	-
Biological Sciences	247	57 (23.1)	12 (4.8)	46 (18.6)	2 (0.8)	15 (6.1)	63 (25.5)	52 (21.1)
Business and Management	952	400 (42.0)	91 (9.5)	134 (14.1)	23 (2.4)	17 (1.8)	230 (24.2)	57 (6.0)
Communications	80	39 (48.8)	10 (12.5)	9 (11.2)	4 (5.0)	4 (5.0)	11 (13.7)	3 (3.8)
Computer Sciences	74	48 (64.8)	14 (18.9)	3 (4.1)	2 (2.7)	-	3 (4.1)	4 (5.4)
Education	5,216	1,878 (36.0)	704 (13.5)	774 (14.8)	121 (2.3)	494 (9.5)	899 (17.2)	346 (6.6)
Fine and Applied Arts	197	48 (24.4)	13 (6.6)	40 (20.3)	8 (4.1)	17 (8.6)	44 (22.3)	27 (13.7)
Foreign Language	79	7 (8.9)	8 (10.1)	20 (25.3)	5 (6.3)	1 (1.3)	24 (30.4)	14 (17.7)
Health Professions	282	177 (62.8)	39 (13.8)	14 (5.0)	2 (0.7)	4 (1.4)	40 (14.2)	6 (2.1)
Home Economics	160	60 (37.5)	18 (11.2)	27 (16.9)	-	4 (2.5)	25 (15.6)	26 (16.3)
Letters	158	32 (20.2)	5 (3.2)	42 (26.6)	3 (1.9)	5 (3.2)	37 (23.4)	34 (21.5)
Library Science	122	56 (45.9)	20 (16.4)	15 (12.3)	1 (0.8)	3 (2.5)	17 (13.9)	10 (8.2)
Mathematics	117	52 (44.4)	10 (8.5)	15 (12.8)	2 (1.7)	4 (3.4)	14 (12.0)	20 (17.1)
Physical Sciences	138	36 (26.1)	16 (11.6)	14 (10.1)	-	5 (3.6)	17 (12.3)	50 (36.2)
Psychology	365	99 (27.1)	13 (3.5)	74 (20.3)	19 (5.2)	38 (10.4)	74 (20.3)	48 (13.2)
Public Affairs and Services	329	111 (33.7)	34 (10.3)	53 (16.1)	14 (4.3)	19 (5.8)	83 (25.2)	15 (4.6)
Social Sciences	860	271 (31.5)	58 (6.7)	145 (16.8)	35 (4.1)	35 (4.1)	214 (24.9)	102 (11.9)
Interdisciplinary Studies	91	16 (17.6)	3 (3.3)	17 (18.7)	7 (7.7)	1 (1.1)	7 (29.7)	20 (21.9)
GRAND TOTAL	9,505	3,395 (35.7)	1,070 (11.3)	1,447 (15.2)	250 (2.6)	666 (7.0)	1,838 (19.3)	839 (8.8)

Table 26.1

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Agriculture and Natural Resources	400	99 (24.7)	60 (15.0)	55 (13.7)	17 (4.3)	26 (6.5)	84 (21.0)	59 (14.8)
Architecture and Environmental Design	53	17 (32.0)	9 (17.0)	4 (7.5)	1 (1.9)	3 (5.7)	10 (18.9)	9 (17.0)
Area Studies	13	-	2 (15.4)	3 (23.0)	1 (7.7)	1 (7.7)	2 (15.4)	4 (30.8)
Biological Sciences	433	51 (11.8)	19 (4.4)	50 (11.5)	28 (6.5)	31 (7.2)	75 (17.3)	179 (41.3)
Business and Management	1,367	560 (41.0)	245 (17.9)	155 (11.3)	27 (2.0)	53 (3.9)	213 (15.6)	114 (8.3)
Communications	267	79 (29.6)	42 (15.7)	27 (10.1)	14 (5.2)	36 (13.5)	51 (19.1)	18 (6.7)
Computer Sciences	114	60 (52.6)	28 (24.6)	2 (1.8)	-	1 (0.9)	8 (7.0)	15 (13.1)
Education	1,254	383 (30.5)	106 (8.5)	140 (11.2)	48 (3.8)	225 (17.9)	214 (17.1)	138 (11.0)
Engineering	824	302 (36.7)	311 (37.7)	44 (5.3)	23 (2.8)	17 (2.1)	63 (7.6)	64 (7.8)
Fine and Applied Arts	217	35 (16.1)	18 (8.3)	36 (16.6)	7 (3.2)	38 (17.5)	39 (18.0)	44 (20.3)
Foreign Languages	75	6 (8.0)	7 (9.3)	11 (14.7)	6 (8.0)	16 (21.3)	12 (16.0)	17 (22.7)
Health Professions	499	324 (64.9)	64 (12.8)	33 (6.6)	3 (0.6)	19 (3.8)	28 (5.6)	28 (5.6)
Home Economics	211	66 (31.3)	20 (9.5)	24 (11.4)	12 (5.7)	17 (8.0)	43 (20.4)	29 (13.7)
Law	2	-	-	-	-	-	1 (50.0)	1 (50.0)
Letters	286	54 (18.9)	34 (11.9)	39 (13.6)	4 (1.4)	32 (11.2)	54 (18.9)	69 (24.1)
Mathematics	85	26 (30.6)	12 (14.1)	9 (10.6)	6 (7.1)	6 (7.1)	11 (12.9)	15 (17.6)
Physical Sciences	315	54 (17.1)	42 (13.3)	24 (7.6)	14 (4.4)	12 (3.8)	29 (9.2)	140 (44.4)
Psychology	285	51 (17.9)	33 (11.5)	33 (11.6)	9 (3.2)	33 (11.6)	45 (15.8)	81 (28.4)
Public Affairs and Services	568	171 (30.1)	47 (8.3)	81 (14.3)	23 (4.0)	41 (7.2)	145 (25.5)	60 (10.6)
Social Sciences	641	110 (17.1)	76 (11.8)	105 (16.4)	37 (5.8)	46 (7.2)	98 (15.3)	169 (26.4)
Interdisciplinary Studies	282	46 (16.3)	34 (12.1)	42 (14.9)	11 (3.9)	18 (6.4)	48 (17.0)	83 (29.4)
GRAND TOTAL	8,191	2,494 (30.4)	1,209 (14.8)	917 (11.2)	291 (3.6)	671 (8.2)	1,273 (15.5)	1,336 (16.3)

Table 26.2

Employment Status by Major Discipline for Baccalaureate Degree Recipients for State-Aided Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Unemployed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Agriculture and Natural Resources	177	75 (42.4)	69 (39.0)	9 (5.1)	5 (2.8)	3 (1.7)	5 (2.8)	11 (6.2)
Architecture and Environmental Design	4	3 (75.0)	-	-	-	-	1 (25.0)	-
Biological Sciences	30	5 (16.7)	7 (23.3)	7 (23.3)	1 (3.3)	1 (3.3)	2 (6.7)	7 (23.3)
Business and Management	284	180 (63.4)	69 (24.3)	3 (1.0)	1 (0.4)	-	18 (6.3)	13 (4.6)
Education	5	2 (40.0)	1 (20.0)	-	-	2 (40.0)	-	-
Engineering	16	2 (12.5)	7 (43.8)	-	-	-	1 (6.2)	6 (37.5)
Fine and Applied Arts	105	32 (30.5)	37 (35.2)	6 (5.7)	3 (2.9)	11 (10.5)	12 (11.4)	4 (3.8)
Health Professions	88	62 (70.4)	24 (27.3)	-	-	-	-	2 (2.3)
Physical Sciences	12	5 (41.7)	5 (41.7)	-	-	-	-	2 (16.6)
Public Affairs and Services	14	14 (100.0)	-	-	-	-	-	-
Interdisciplinary Studies	1	1 (100.0)	-	-	-	-	-	-
GRAND TOTAL	736	381 (51.8)	219 (29.7)	25 (3.4)	10 (1.4)	17 (2.3)	39 (5.3)	45 (6.1)

Table 26,3

Employment Status by Major Discipline for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Agriculture and Natural Resources	3	-	-	-	-	-	-	3 (100.0)
Architecture and Environmental Design	33	13 (39.4)	8 (24.2)	1 (3.0)	6 (18.2)	-	-	5 (15.2)
Area Studies	18	1 (5.6)	-	4 (22.2)	6 (33.3)	-	1 (5.6)	6 (33.3)
Biological Sciences	926	111 (12.0)	67 (7.2)	53 (5.7)	28 (3.0)	20 (2.2)	146 (15.8)	501 (54.1)
Business and Management	2,341	959 (41.0)	425 (18.2)	132 (5.6)	64 (2.7)	80 (3.4)	445 (19.0)	236 (10.1)
Communications	117	32 (27.3)	12 (10.3)	22 (18.8)	9 (7.7)	3 (2.6)	29 (24.8)	10 (8.5)
Computer Sciences	50	28 (56.0)	11 (22.0)	4 (8.0)	-	-	4 (8.0)	3 (6.0)
Education	1,414	467 (33.0)	263 (18.6)	168 (11.9)	71 (5.0)	105 (7.4)	212 (15.0)	128 (9.1)
Engineering	890	312 (35.0)	411 (46.2)	5 (0.6)	9 (1.0)	-	56 (6.3)	97 (10.9)
Fine and Applied Arts	280	66 (23.6)	51 (18.2)	26 (9.3)	25 (8.9)	16 (5.7)	30 (10.7)	66 (23.6)
Foreign Language	165	18 (10.9)	16 (9.7)	19 (11.5)	26 (15.8)	5 (3.0)	22 (13.3)	59 (35.8)
Health Professions	480	313 (65.2)	89 (18.5)	2 (0.4)	1 (0.2)	10 (2.1)	31 (6.5)	34 (7.1)
Home Economics	75	23 (30.7)	17 (22.7)	6 (8.0)	5 (6.7)	5 (6.7)	11 (14.6)	8 (10.6)
Law	6	3 (50.0)	-	-	-	-	-	3 (50.0)
Letters	551	73 (13.2)	74 (13.4)	93 (16.9)	60 (10.9)	18 (3.3)	69 (12.5)	164 (29.8)
Library Science	6	2 (33.3)	1 (16.7)	-	-	-	2 (33.3)	1 (16.7)
Mathematics	298	106 (35.6)	64 (21.5)	15 (5.0)	8 (2.7)	3 (1.0)	22 (7.4)	80 (26.8)
Physical Sciences	431	62 (14.4)	42 (9.7)	12 (2.8)	13 (3.0)	2 (0.5)	22 (5.1)	278 (64.5)
Psychology	643	113 (17.6)	50 (7.8)	84 (13.1)	47 (7.3)	19 (2.9)	119 (18.5)	211 (32.8)
Public Affairs and Services	370	147 (39.7)	44 (11.9)	55 (14.9)	16 (4.3)	12 (3.2)	54 (14.6)	42 (11.4)
Social Sciences	1,378	162 (11.7)	146 (10.6)	189 (13.7)	151 (11.0)	29 (2.1)	187 (13.6)	514 (37.3)
Theology	161	25 (15.5)	28 (17.4)	21 (13.0)	15 (9.3)	2 (1.2)	18 (11.2)	52 (32.3)
Interdisciplinary Studies	72	13 (18.1)	7 (9.7)	10 (13.9)	6 (8.3)	5 (6.9)	5 (6.9)	26 (36.1)
GRAND TOTAL	10,708	3,049 (28.4)	1,826 (17.1)	921 (8.6)	566 (5.3)	334 (3.1)	1,485 (13.9)	2,527 (23.6)

Table 27.0

Employment Status by Major Discipline for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Biological Sciences	31	16 (51.6)	5 (16.1)	3 (9.7)	-	2 (6.4)	2 (6.4)	3 (9.7)
Business and Management	55	31 (56.4)	9 (16.4)	6 (10.9)	1 (1.8)	1 (1.8)	1 (1.8)	6 (10.9)
Communications	31	13 (41.9)	7 (22.6)	4 (12.9)	1 (3.2)	1 (3.2)	2 (6.5)	3 (9.7)
Education	1,139	840 (73.7)	103 (9.0)	60 (5.3)	15 (1.3)	26 (2.3)	69 (6.0)	26 (2.3)
Fine and Applied Arts	12	10 (83.3)	1 (8.3)	-	-	-	-	1 (8.3)
Foreign Languages	13	6 (46.2)	1 (7.7)	1 (7.7)	1 (7.7)	4 (30.7)	-	-
Health Professions	17	8 (47.1)	3 (17.6)	-	5 (29.4)	-	1 (5.9)	-
Letters	21	7 (33.3)	3 (14.3)	1 (4.8)	4 (19.0)	3 (14.3)	2 (9.5)	1 (4.8)
Library Science	38	17 (44.7)	4 (10.5)	4 (10.5)	2 (5.3)	4 (10.5)	6 (15.8)	1 (2.6)
Mathematics	25	14 (56.0)	6 (24.0)	2 (8.0)	-	-	2 (8.0)	1 (4.0)
Physical Sciences	12	8 (66.7)	2 (16.7)	1 (8.3)	-	-	-	1 (8.3)
Psychology	40	23 (57.5)	3 (7.5)	3 (7.5)	2 (5.0)	2 (5.0)	2 (5.0)	5 (12.5)
Public Affairs and Services	64	14 (21.9)	31 (48.4)	5 (7.8)	7 (10.9)	-	6 (9.3)	1 (1.6)
Social Sciences	43	28 (65.1)	2 (4.7)	5 (11.6)	-	2 (4.7)	5 (11.6)	1 (2.3)
Interdisciplinary Studies	6	6 (100.0)	-	-	-	-	-	-
GRAND TOTAL	1,547	1,041 (67.3)	180 (11.6)	95 (6.1)	38 (2.5)	45 (2.9)	98 (6.3)	50 (3.2)

Table 27,1

Employment Status by Major Discipline for Master's Degree Recipients for State-Aided Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Biological Sciences	15	10	3	-	1	-	-	1

Table 27.2

Employment Status by Major Discipline for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Agriculture and Natural Resources	23	5 (21.7)	3 (13.0)	-	1 (4.4)	1 (4.4)	2 (8.7)	11 (47.8)
Architecture and Environmental Design	20	10 (50.0)	6 (30.0)	1 (5.0)	1 (5.0)	-	1 (5.0)	1 (5.0)
Area Studies	6	-	-	2 (33.3)	-	-	3 (50.0)	1 (16.6)
Biological Sciences	46	9 (19.6)	10 (21.7)	2 (4.3)	1 (2.2)	1 (2.2)	5 (10.9)	18 (39.1)
Business and Management	228	128 (56.1)	43 (18.9)	20 (8.8)	5 (2.2)	5 (2.2)	9 (3.9)	18 (7.9)
Communications	11	2 (18.2)	5 (45.4)	-	2 (18.2)	-	2 (18.2)	-
Computer Sciences	16	7 (43.8)	5 (31.2)	1 (6.2)	-	-	-	3 (18.8)
Education	850	509 (59.9)	72 (8.5)	58 (6.8)	6 (0.7)	48 (5.6)	50 (5.9)	107 (12.6)
Engineering	126	61 (48.4)	37 (29.4)	3 (2.4)	5 (4.0)	-	-	20 (15.8)
Fine and Applied Arts	45	12 (26.7)	5 (11.1)	7 (15.6)	-	14 (31.1)	4 (8.9)	3 (6.6)
Foreign Languages	17	1 (5.9)	3 (17.6)	-	-	-	3 (17.7)	10 (58.8)
Health Professions	102	48 (47.1)	16 (15.6)	7 (6.9)	-	8 (7.8)	13 (12.8)	10 (9.8)
Home Economics	15	1 (6.6)	3 (20.0)	-	-	-	1 (6.6)	10 (66.7)
Letters	54	14 (25.9)	2 (3.7)	8 (14.8)	-	9 (16.7)	3 (5.6)	18 (33.3)
Mathematics	21	7 (33.3)	3 (14.3)	2 (9.5)	1 (4.8)	1 (4.8)	2 (9.5)	5 (23.8)
Physical Sciences	49	13 (26.5)	17 (34.7)	3 (6.1)	3 (6.1)	1 (2.0)	6 (12.2)	6 (12.2)
Psychology	36	9 (25.0)	1 (2.8)	2 (5.6)	1 (2.8)	3 (8.3)	4 (11.1)	16 (44.4)
Public Affairs and Services	162	80 (49.4)	26 (16.1)	12 (7.4)	2 (1.2)	6 (3.7)	26 (16.1)	10 (6.1)
Social Sciences	73	14 (19.2)	10 (13.7)	2 (2.7)	2 (2.7)	10 (13.7)	9 (12.3)	26 (35.6)
Interdisciplinary Studies	14	5 (35.7)	4 (28.6)	2 (14.3)	-	-	3 (21.4)	-
GRAND TOTAL	1,914	935 (48.9)	271 (14.1)	1[illegible] (6.9)	30 (1.6)	107 (5.6)	146 (7.6)	293 (15.3)

Table 27.3

Employment Status by Major Discipline for Master's Degree Recipients for Private Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Architecture and Environmental Design	6	1 (16.7)	3 (50.0)	1 (16.6)	-	-	-	1 (16.7)
Biological Sciences	7	1 (14.3)	-	-	-	-	2 (28.5)	4 (57.1)
Business & Management	265	127 (47.9)	104 (39.2)	4 (1.5)	2 (0.8)	-	19 (7.2)	9 (3.4)
Computer Sciences	11	3 (27.3)	7 (63.6)	-	-	-	-	1 (9.1)
Education	170	114 (67.1)	32 (18.8)	4 (2.4)	-	1 (0.6)	3 (1.7)	16 (9.4)
Engineering	120	29 (24.2)	56 (46.7)	-	-	-	5 (4.1)	30 (25.0)
Fine & Applied Arts	19	8 (42.1)	7 (36.8)	1 (5.3)	-	-	3 (15.8)	-
Foreign Languages	2	-	-	-	2 (100.0)	-	-	-
Health Professions	7	5 (71.4)	-	-	-	-	1 (14.3)	1 (14.3)
Law	20	17 (85.0)	1 (5.0)	-	2 (10.0)	-	-	-
Letters	8	6 (75.0)	-	-	-	1 (12.5)	1 (12.5)	-
Library Science	1	1 (100.0)	-	-	-	-	-	-
Mathematics	13	3 (23.1)	6 (46.2)	-	-	-	1 (7.5)	3 (23.1)
Physical Sciences	19	5 (26.3)	3 (15.8)	-	-	-	1 (5.3)	10 (52.6)
Psychology	5	2 (40.0)	1 (20.0)	1 (20.0)	-	-	-	1 (20.0)
Public Affairs and Services	28	9 (32.1)	19 (67.9)	-	-	-	-	-
Social Sciences	21	13 (61.9)	2 (9.5)	-	1 (4.8)	-	3 (14.3)	2 (9.5)
Theology	9	4 (44.4)	5 (55.6)	-	-	-	-	-
GRAND TOTAL	731	348 (47.6)	246 (33.7)	11 (1.5)	7 (1.0)	2 (0.3)	39 (5.3)	78 (10.6)

Table 28.0

Employment Status by Major Discipline for Doctoral Degree Recipients for State-Related Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Agriculture and Natural Resources	10	1 (10.0)	8 (80.0)	-	-	-	1 (~~100.0~~) 10.0	-
Biological Sciences	30	9 (30.0)	14 (46.7)	3 (10.0)	-	2 (6.7)	1 (3.3)	1 (3.3)
Business and Management	8	2 (25.0)	5 (62.5)	-	1 (12.5)	-	-	-
Computer Sciences	3	1 (33.3)	2 (66.7)	-	-	-	-	-
Education	141	89 (63.1)	17 (12.1)	24 (17.0)	1 (0.7)	5 (3.5)	4 (2.8)	1 (0.7)
Engineering	19	8 (42.1)	10 (52.6)	-	-	-	1 (5.3)	-
Fine and Applied Arts	8	3 (37.5)	3 (37.5)	-	-	1 (12.5)	1 (12.5)	-
Foreign Language	5	2 (40.0)	2 (40.0)	1 (20.0)	-	-	-	-
Health Professions	7	4 (57.1)	2 (28.6)	-	-	1 (14.3)	-	-
Home Economics	3	2 (66.7)	1 (33.3)	-	-	-	-	-
Letters	21	6 (28.6)	6 (28.6)	4 (19.0)	1 (4.8)	3 (14.2)	1 (4.8)	-
Library Science	2	2 (100.0)	-	-	-	-	-	-
Mathematics	7	4 (57.1)	2 (28.6)	-	-	-	-	1 (14.3)
Physical Sciences	42	16 (38.1)	21 (50.0)	2 (4.8)	-	2 (4.8)	1 (2.3)	-
Psychology	17	6 (35.3)	7 (41.2)	-	1 (5.9)	-	2 (11.7)	1 (5.9)
Public Affairs	5	2 (40.0)	2 (40.0)	-	-	1 (20.0)	-	-
Social Sciences	41	8 (19.5)	23 (56.1)	4 (9.8)	1 (2.4)	2 (4.9)	3 (7.3)	-
Theology	1	1 (100.0)	-	-	-	-	-	-
Interdisciplinary Studies	1	1 (100.0)	-	-	-	-	-	-
GRAND TOTAL	371	167 (45.0)	125 (33.7)	38 (10.2)	5 (1.4)	17 (4.5)	15 (4.0)	4 (1.1)

Table 28.1

Employment Status by Major Discipline for Doctoral Degree Recipients for Private Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree
Biological Sciences	4	2 (50.0)	-	-	-	-	1 (25.0)	1 (25.0)
Business and Management	6	-	6 (100.0)	-	-	-	-	-
Computer Sciences	6	1 (16.7)	5 (83.3)	-	-	-	-	-
Education	20	14 (70.0)	6 (30.0)	-	-	-	-	-
Engineering	27	12 (44.4)	14 (51.9)	-	-	-	1 (3.7)	-
Fine & Applied Arts	6	4 (66.6)	1 (16.7)	-	-	-	1 (16.7)	-
Foreign Language	5	4 (80.0)	-	-	-	-	1 (20.0)	-
Letters	3	3 (100.0)	-	-	-	-	-	-
Mathematics	9	2 (22.2)	7 (77.7)	-	-	-	-	-
Physical Sciences	13	5 (38.5)	7 (53.8)	-	-	-	-	1 (7.7)
Psychology	4	2 (50.0)	1 (25.0)	-	-	-	1 (25.0)	-
Public Affairs	4	-	4 (100.0)	-	-	-	-	-
Social Sciences	10	2 (20.0)	5 (50.0)	-	1 (10.0)	1 (10.0)	1 (10.0)	-
GRAND TOTAL	117	51 (43.6)	56 (47.8)	-	1 (0.9)	1 (0.9)	6 (5.1)	2 (1.7)

Table 28.2

Employment Status by Major Discipline for Doctoral Degree Recipients for State-Aided Institutions in Pennsylvania, 1977

Major Discipline	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree
Biological Sciences	12	3	8	-	-	-	-	1

Table 29.0

Employment Status by Major Discipline for Associate Degree Recipients for Community Colleges in Pennsylvania, 1977

HEGIS Degree Field	Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree
Data Processing Technologies	166	107 (64.5)	8 (4.8)	16 (9.6)	3 (1.8)	4 (2.4)	4 (2.4)	24 (14.5)
Health Services and Para-Medical Technologies	1,311	987 (75.3)	45 (3.4)	44 (3.4)	2 (0.2)	57 (4.3)	74 (5.6)	102 (7.8)
Mechanical & Engineering Technologies	812	516 (63.5)	48 (5.9)	82 (10.1)	1 (0.1)	17 (2.1)	36 (4.4)	112 (13.8)
Natural Science Technologies	137	66 (48.2)	15 (10.9)	24 (17.5)	-	-	7 (5.1)	25 (18.2)
Business and Commerce Technologies	1,188	667 (56.1)	32 (2.7)	110 (9.3)	7 (0.6)	52 (4.4)	64 (5.4)	256 (21.5)
Public Service-Related Technologies	563	245 (43.5)	17 (3.0)	66 (11.7)	1 (0.2)	32 (5.7)	26 (4.6)	176 (31.3)
Arts and Science Transfers	1,561	380 (24.3)	21 (1.3)	95 (6.1)	12 (0.8)	98 (6.3)	69 (4.4)	886 (56.8)
GRAND TOTAL	5,738	2,968 (51.7)	186 (3.2)	437 (7.6)	26 (0.5)	260 (4.5)	280 (4.9)	1,581 (27.6)

Table 29.1

Employment Status by Major Discipline for Associate Degree Recipients for Proprietary Institutions in Pennsylvania, 1977

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Data Processing Technologies	153	98 (64.0)	22 (14.4)	21 (13.7)	5 (3.3)	-	3 (2.0)	4 (2.6)
Health Services and Para-Medical Technologies	76	69 (90.8)	3 (3.9)	1 (1.3)	-	-	3 (3.9)	-
Mechanical & Engineering Technologies	695	348 (50.0)	245 (35.3)	40 (5.8)	8 (1.2)	-	33 (4.7)	21 (3.0)
Business and Commerce Technologies	815	561 (68.8)	87 (10.7)	32 (3.9)	6 (0.7)	9 (1.1)	82 (10.1)	38 (4.7)
GRAND TOTAL	1,739	1,076 (61.9)	357 (20.5)	94 (5.4)	19 (1.1)	9 (0.5)	121 (6.9)	63 (3.6)

Table 29,2

Employment Status by Major Discipline for Associate Degree Recipients for Four-Year Colleges and Universities, 1977

HEGIS Degree Field	Total Reported	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree
		In Pa.	Outside Pa.	In Pa.	Outside Pa.			
Data Processing Technologies	47	22 (46.8)	16 (34.0)	1 (2.1)	-	-	3 (6.4)	5 (10.6)
Health Services and Para-Medical Technologies	38	31 (81.6)	1 (2.6)	2 (5.3)	-	1 (2.6)	3 (7.9)	-
Mechanical & Engineering Technologies	485	197 (40.6)	53 (10.9)	36 (7.4)	4 (0.8)	14 (2.9)	59 (12.2)	122 (25.2)
Natural Science Technologies	125	38 (30.4)	3 (2.4)	32 (25.6)	3 (2.4)	14 (11.2)	20 (16.0)	15 (12.0)
Business and Commerce Technologies	164	63 (38.4)	2 (1.2)	24 (14.6)	2 (1.2)	10 (6.1)	16 (9.8)	47 (28.7)
Public Service-Related Technologies	101	51 (50.5)	2 (2.0)	13 (12.9)	-	9 (8.9)	11 (10.9)	15 (14.8)
Arts and Science Transfers	152	12 (7.9)	1 (0.7)	35 (23.0)	5 (3.3)	9 (5.9)	7 (4.6)	83 (54.6)
GRAND TOTAL	1,112	414 (37.2)	78 (7.0)	143 (12.9)	14 (1.3)	57 (5.1)	119 (10.7)	287 (25.8)

Table 30.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Otheral
AGRICULTURE AND NATURAL RESOURCES	Total	849	176	129	68	23	29	99	76	249
Agriculture, general		40	6	1	3	1	5	4	1	19
Agronomy (field crops, and crop management		53	12	16	3	-	-	4	4	14
Animal science (husbandry)		174	29	23	9	2	7	13	24	67
Dairy science (husbandry)		14	10	3	-	-	-	-	1	-
Horticulture (fruit and vegetable production		119	31	18	5	4	4	14	12	31
Ornamental horticulture (floriculture, nursery sci.)		71	38	28	1	1	-	-	-	3
Agricultural economics		23	7	5	2	-	2	3	1	3
Agricultural business		22	3	4	2	1	2	1	-	9
Food science & technology		35	8	9	1	2	-	5	6	4
Forestry		138	8	9	26	7	5	23	16	44
Natural resources management		137	16	10	16	5	4	30	10	46
Other		23	8	3	-	-	-	2	1	9
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	169	38	19	5	8	3	12	16	68
Environmental design, gen.		6	3	-	-	-	-	1	1	1
Architecture		73	18	7	2	2	-	6	7	31
Interior design		22	5	4	-	3	-	-	-	10
Landscape architecture		47	7	6	3	-	3	4	4	20
City, community and regional planning		20	5	2	-	2	-	1	4	6
Other (Performing arts)		1	-	-	-	1	-	-	-	-
AREA STUDIES	Total	55	2	2	8	7	1	8	10	17
Asian studies, general		1	-	-	-	-	-	-	-	1
East Asian studies		3	-	-	1	-	-	-	-	2
Latin American studies		4	-	-	1	-	-	1	-	2
European studies, general		8	-	-	-	3	-	-	-	5
American studies		39	2	2	6	4	1	7	10	7
BIOLOGICAL SCIENCES	Total	2,334	224	105	156	59	67	286	739	698
Biology, general		2,003	196	79	141	54	63	237	635	598
Plant physiology		1	1	-	-	-	-	-	-	-
Microbiology		59	8	4	6	3	-	7	14	17
Biochemistry		91	6	3	-	-	1	3	21	57
Biophysics		8	-	-	-	-	-	1	5	2
Cell biology (cytology, cell physiology)		19	2	6	-	-	-	1	8	2
Marine biology		4	-	-	1	-	1	-	1	1
Ecology		19	1	8	4	1	-	3	1	1
Entomology		6	-	1	-	-	1	1	1	2
Other (Biology/Chem./Pre-Med.)		8	3	-	-	-	1	1	1	2
Other (Nat. sci.)		59	-	-	-	-	-	24	35	-
Other (Bio./Psych.)		2	-	-	-	-	-	-	2	-
Other (ESRM)		10	-	1	-	-	-	.5	3	1
Other (Bio./Econ.)		1	-	-	-	-	-	-	1	-
Other (Gen. sci.)		9	3	2	1	1	-	-	2	-
Other		35	4	1	3	-	-	3	9	15
BUSINESS AND MANAGEMENT	Total	6,489	2,099	830	424	115	150	906	420	1,545
Business and commerce, general		864	235	87	55	16	25	104	69	273
Accounting		2,409	857	349	123	28	53	373	133	493
Business statistics		2	1	-	-	-	-	1	-	-
Banking and finance		326	84	47	21	11	2	64	20	77
Business management & admnr.		1,492	495	177	130	34	40	192	111	313
Operations research		16	7	2	2	1	-	2	1	1
Hotel & restaurant mgt.		6	3	2	1	-	-	-	-	-
Marketing and purchasing		701	232	82	45	15	20	95	39	173
Transportation & public utilities		132	32	16	16	3	1	17	5	42
Real estate		9	5	1	1	-	-	2	-	-
Insurance		74	28	1	7	2	2	3	3	28
Secretarial studies (bacc. & higher)		7	3	3	1	-	-	-	-	-
Personnel management		65	15	2	-	1	-	6	3	38
Labor & industrial relations		63	9	8	7	1	5	10	11	12
Business economics		166	36	11	12	2	2	15	17	71
Other (Office adm.)		12	4	-	1	-	-	5	-	2
Other (Tex. mgt. & Marketing)		56	14	23	-	-	-	5	4	10
Other (Textile retailing)		21	13	6	-	-	-	1	-	1
Other (Apparel management)		12	2	8	-	-	-	-	-	2
Other (U.S. Govt. invest.)		1	1	-	-	-	-	-	-	-
Other (Retail)		6	4	2	-	-	-	-	-	-
Other		49	19	3	2	1	-	11	4	9

[1]The "all others" category represents those not responding to the survey which should represent the difference between the number of respondents and the number of graduates.

Table 30.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
COMMUNICATIONS Total	590	150	64	58	27	43	91	31	126
Communications, general	189	48	17	24	11	6	29	9	45
Journalism (printed media)	261	68	30	18	7	25	38	12	63
Radio/television	84	21	13	9	6	10	14	9	2
Advertising	49	12	3	4	2	2	10	-	16
Communication media (use of videotape, films, etc., oriented specifically toward radio and television)	5	1	1	2	1	-	-	-	-
Other (Theater & Comm.)	2	-	-	1	-	-	-	1	-
COMPUTER AND INFORMATION SCIENCES Total	315	136	53	9	2	1	15	22	77
Computer and information sciences, general	239	95	43	7	1	1	10	20	62
Information sciences & systems	6	3	1	-	-	-	-	1	1
Data processing	7	6	-	-	-	-	-	-	1
Computer programming	7	2	2	-	-	-	2	-	1
Systems analysis	26	9	3	-	1	-	2	-	11
Other (Math/Comp. sci.)	24	16	4	1	-	-	1	1	1
Other (Bur. Inf. Sys.)	6	5	-	1	-	-	-	-	-
EDUCATION Total	9,652	2,730	1,074	1,082	240	826	1,325	612	1,763
Education, general	93	15	18	11	5	3	9	22	10
Elementary education, general	3,170	877	343	327	79	304	463	164	613
Secondary education, general	293	44	16	26	10	25	49	21	102
English education	230	66	15	26	7	20	28	14	54
Home economics education	179	60	8	34	2	7	24	11	33
French	66	16	5	11	5	5	12	3	9
German	33	6	2	4	-	2	9	3	7
Spanish	78	19	7	9	2	3	19	8	11
Russian	2	-	-	-	-	-	1	-	1
Latin	4	1	2	-	-	-	-	-	1
Nursing education	155	77	5	33	1	8	10	1	20
Biology education	113	35	15	18	-	8	13	7	17
Chemistry education	18	9	4	1	-	-	2	1	1
Earth & space science education	45	19	6	3	1	1	6	3	6
Physics education	14	2	2	2	-	1	1	3	3
Social studies education	407	69	18	75	18	41	80	2	82
Speech & dramatic arts education	44	7	-	3	4	4	4	4	18
Junior high school education	3	2	1	-	-	-	-	-	-
Junior & community college education	2	1	-	-	-	-	-	1	-
Special education, general	340	132	60	11	1	11	69	9	47
Education of the mentally retarded	784	300	171	58	14	36	62	34	109
Education of the gifted	1	1	-	-	-	-	-	-	-
Education of the visually handicapped	45	13	22	2	-	4	3	1	-
Speech correction	294	64	36	27	6	16	34	69	42
Education of the emotionally disturbed	108	45	21	16	-	2	12	5	7
Education of the physically handicapped	35	12	10	2	1	2	3	1	4
Educational psychology (include learning theory)	1	1	-	-	-	-	-	-	-
Pre-elementary education	199	82	21	28	3	19	19	7	20
Educational statistics & research	1	1	-	-	-	-	-	-	-
Student personnel (counseling & guidance	2	-	-	-	-	1	-	1	-
Educational administration	2	1	-	-	-	-	-	1	-
Reading education (method. & theory)	22	3	-	1	-	3	-	2	13
Art education (method. & theory)	340	85	28	53	9	40	46	14	65
Music education (method. & theory)	491	136	77	51	17	31	61	39	79
Mathematics education (method. & theory)	82	28	24	11	3	2	2	6	6
Science education (method. & theory)	20	3	3	3	2	-	4	1	4
Physical education	1,019	160	64	131	34	176	197	71	186
Health education (include family life education)	33	4	3	4	2	4	10	2	4
Business, commerce and distributive education	228	98	17	31	3	5	21	14	39
Industrial arts, vocational & tech. education	334	159	34	42	6	9	9	27	48
Other (Comm. art)	48	8	5	12	-	2	6	3	12
Other (Math./Physics)	2	1	-	-	-	-	1	-	-
Other (Recreation)	9	2	-	1	-	-	1	-	5
Other (Dental hygiene)	7	7	-	-	-	-	-	-	-
Other (T.E.Sol.)	2	1	-	-	-	-	1	-	-
Other (Social studies)	1	-	-	-	-	-	1	-	-
Other (Early childhood)	51	19	5	3	-	10	10	4	-
Other (School psych.)	1	1	-	-	-	-	-	-	-
Other (Health, Phy. Recreation)	20	8	1	1	1	5	3	1	-
Other (Comm.)	1	-	-	-	-	-	-	-	1
Other	180	30	5	11	4	16	20	10	84

Table 30.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
ENGINEERING Total	2,411	616	729	49	32	17	120	167	681
Engineering, general	52	15	14	-	-	-	3	12	8
Aerospace, aeronautical & astronautical engineering	13	-	6	1	-	-	-	2	4
Agricultural engineering	11	3	4	-	1	1	-	-	2
Architectural engineering	78	13	31	-	1	-	1	2	30
Chemical engineering (include petroleum refining)	261	53	118	1	3	-	14	14	58
Petroleum engineering (exclude petroleum refining)	23	1	10	-	-	-	-	1	11
Civil, construction & transportation engineering	403	97	113	6	9	5	31	29	113
Electrical, electronics & communications engineering	501	135	159	5	4	1	11	38	148
Mechanical engineering	363	110	116	2	2	-	12	18	103
Industrial & management eng.	121	31	35	1	3	-	-	12	39
Metallurgical engineering	55	17	20	-	-	-	3	2	13
Materials engineering	7	2	2	-	-	-	-	1	2
Ceramic engineering	18	1	4	-	1	1	1	5	5
Textile engineering	27	2	7	-	-	-	1	6	11
Mining & mineral engineering	33	14	6	-	-	-	-	-	13
Engineering physics	2	-	-	-	-	-	-	1	1
Nuclear engineering	36	1	12	1	-	1	3	3	15
Environmental & sanitary engineering	34	8	9	2	1	-	5	2	7
Engineering tech. (baccalaureate & higher programs)	355	113	59	30	6	8	34	16	89
Other (Fund. sci.)	6	-	1	-	-	-	1	1	3
Other	12	-	3	-	1	-	-	2	6
FINE AND APPLIED ARTS Total	1,364	181	119	108	43	82	125	141	565
Fine arts, general	88	20	14	1	2	5	6	14	26
Art (painting, drawing, sculpture)	540	40	26	59	16	37	59	49	254
Art history & appreciation	80	4	2	3	3	6	7	17	38
Music (performing, composition, theory)	89	12	5	12	6	4	5	13	22
Music (liberal arts program)	67	9	2	3	6	-	4	16	27
Music history & appreciation (musicology)	7	-	-	1	1	-	-	3	2
Dramatic arts	125	18	12	9	3	8	12	8	55
Dance	4	-	1	-	-	1	2	-	-
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	292	75	58	7	6	16	22	7	101
Cinematography	41	1	-	7	-	1	6	3	23
Photography	12	2	-	1	-	1	-	-	8
Other (Music therapy)	3	-	-	-	-	-	-	-	3
Other (Art history & Economics)	1	-	-	-	-	-	-	-	1
Other	15	-	13	4	-	3	2	1	5
FOREIGN LANGUAGES Total	485	31	31	50	37	22	58	90	166
Foreign languages, general	28	4	3	2	3	1	4	6	5
French	157	13	9	18	16	6	16	21	58
German	79	5	3	10	3	2	7	18	31
Italian	15	-	-	2	-	1	1	7	4
Spanish	147	8	14	14	9	10	22	20	50
Russian	29	-	1	2	1	-	5	8	12
Chinese	1	-	-	-	-	-	-	-	1
Japanese	3	-	-	-	1	-	-	-	2
Latin	5	-	-	-	-	-	1	4	-
Greek, classical	10	-	-	2	2	-	-	3	3
Hebrew	9	1	1	-	2	2	1	2	-
Other (French/Psych/Classics)	2	-	-	-	-	-	1	1	-

Table 30.0

Employment Status by Degree Field for Baccalaureate
Degree Recipients for All Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
HEALTH PROFESSIONS	Total	2,041	876	216	49	6	33	99	70	692
Health professions, general		64	11	5	3	1	1	12	13	18
Hospital and health care admnr.		73	14	3	8	3	-	9	4	32
Nursing (bacc. & higher programs)		1,139	545	135	10	1	15	39	21	373
Medicine, M.D. degree		4	-	-	-	-	1	1	2	-
Medical specialties (work beyond first-prof. degree, M.D.)		1	-	1	-	-	-	-	-	-
Occupational therapy		42	27	7	7	-	1	-	-	-
Optometry		1	-	-	-	-	-	-	1	-
Pharmacy		92	21	3	-	-	3	-	2	63
Physical therapy		69	30	3	2	-	-	-	-	34
Dental hygiene (bacc. & higher prog.)		9	6	-	-	-	1	-	-	2
Public health		5	1	-	1	-	-	3	-	-
Medical record librarianship		17	7	8	-	-	-	2	-	-
Speech pathology & audio.		83	18	5	8	1	4	28	12	7
Medical lab. technologies (bacc. & higher programs)		324	164	44	5	-	6	4	12	89
Dental technologies (bacc. & higher programs)		6	1	-	-	-	-	-	-	5
Other (Resp. therapy)		20	2	-	-	-	-	-	-	18
Other (Nuclear Bio./Med. tech.)		3	3	-	-	-	-	-	-	-
Other (Pre-Med.)		1	1	-	-	-	-	-	-	-
Other (Health/Phy.ed./Rec.)		4	-	-	-	-	-	-	2	2
Other		84	25	2	5	-	1	1	1	49
HOME ECONOMICS	Total	669	149	55	57	17	26	79	63	223
Home economics, general		127	34	8	4	3	3	15	5	55
Clothing and textiles		24	11	4	-	1	3	3	-	2
Consumer economics & home mgt.		5	-	2	-	1	1	-	1	-
Family relations & child dev.		210	40	3	22	9	17	39	11	69
Foods and nutrition		183	26	16	30	2	2	15	37	55
Institutional management & cafeterial management		104	32	20	1	1	-	5	9	36
Other (Merchandising & Retailing)		2	1	-	-	-	-	-	-	1
Other (Home Ec. in Bus.)		14	5	2	-	-	-	2	-	5
LAW	Total	11	3	-	-	-	-	1	4	3
Law (Pre-Law)		9	1	-	-	-	-	1	4	3
Other (Para-legal trainee)		2	2	-	-	-	-	-	-	-
LETTERS	Total	1,638	159	113	174	67	55	160	267	643
English, general		882	100	61	95	37	25	100	139	325
Literature, English		89	3	10	7	1	3	7	13	45
Comparative literature		2	-	-	-	-	-	2	-	-
Classics		14	1	-	-	1	-	-	2	10
Linguistics		7	-	-	-	-	1	-	2	4
Speech, debate & forensic science		120	19	5	14	2	8	14	11	47
Creative writing		17	4	1	1	-	-	1	-	10
Teaching of English as a foreign language		9	-	-	5	-	-	1	1	2
Philosophy		158	3	5	13	10	-	15	46	66
Religious studies (exclude theological professions)		175	13	23	26	16	8	8	36	45
Other (Related arts)		1	-	-	-	-	-	1	-	-
Other (Speech/Comm./Theater)		9	1	-	1	-	1	-	3	3
Other (Eng.lit./Psych.)		1	-	-	-	-	-	-	-	1
Other (Eng. lit./Music)		1	-	-	-	-	-	1	-	-
Other (Tech. writing)		5	1	4	-	-	-	-	-	-
Other		148	14	4	12	-	9	10	14	85
LIBRARY SCIENCE	Total	141	58	21	15	1	3	19	11	13
Library science, general		114	49	20	14	1	2	17	7	4
Other (Ed. related)		18	4	-	-	-	1	1	4	8
Other		9	5	1	1	-	-	1	-	1
MATHEMATICS	Total	648	184	86	39	16	13	47	115	148
Mathematics, general		619	170	85	37	15	13	47	113	139
Statistics, math. & theoretical		5	4	-	-	-	-	-	-	1
Applied mathematics		17	6	-	2	-	-	-	1	8
Other (Math./Comp. sci.)		5	4	-	-	1	-	-	-	-
Other (Actuarial)		2	-	1	-	-	-	-	1	-

Table 30.0

Employment Status by Degree Field for Baccalaureate Degree Recipients for All Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
PHYSICAL SCIENCES	Total	1,281	157	105	50	27	19	68	470	385
Physical sciences, general		61	3	7	1	1	3	5	15	26
Physics, general		134	16	10	3	3	-	7	69	26
Chemistry, general		577	91	40	14	5	8	28	236	155
Pharmaceutical chemistry		2	-	-	-	-	-	-	2	-
Astronomy		5	2	-	-	-	-	-	2	1
Atmospheric sciences & meteorology		47	4	6	-	1	2	3	8	23
Geology		177	15	30	10	9	1	7	56	49
Earth sciences, general		62	4	1	9	2	2	8	10	26
Oceanography		1	-	-	-	-	-	-	1	-
Metallurgy		22	9	3	-	1	-	-	1	8
Other (Tex. chemistry)		5	2	1	-	-	-	-	1	1
Other (Chem./Bus. concentration)		2	2	-	-	-	-	-	-	-
Other (Chem./Anc.history)		1	-	-	-	-	-	1	-	-
Other		185	9	7	13	5	3	9	69	70
PSYCHOLOGY	Total	2,026	263	96	191	75	90	238	340	733
Psychology, general		1,936	242	94	179	71	87	230	322	711
Clinical psychology		46	7	1	8	1	-	1	9	19
Psychology for counseling		7	4	-	2	-	-	1	-	-
Social psychology		4	3	-	-	-	-	1	-	-
Other (Mental health)		22	4	1	2	2	2	3	8	-
Other (Human service psychology)		7	2	-	-	1	1	1	1	1
Other (Psych. religion)		1	-	-	-	-	-	-	-	1
Other (Teaching)		1	1	-	-	-	-	-	-	-
Other (Psych./Econ.)		1	-	-	-	-	-	-	-	1
Other (Psych./Biol.)		1	-	-	-	-	-	1	-	-
PUBLIC AFFAIRS AND SERVICES	Total	1,815	443	125	189	53	72	282	117	534
Community services, general		46	8	2	3	1	1	4	2	25
Public administration		19	4	-	2	-	-	-	3	10
Parks and recreation mgt.		280	43	23	33	10	16	68	3	84
Social work and helping services (other than clinical social work)		664	183	35	64	21	34	121	61	145
Law enforcement & corrections (bacc. & higher programs)		510	138	35	71	17	17	69	29	134
International public service (other than diplomatic service)		20	-	2	-	2	-	2	6	8
Other (Saf. mgt.)		34	16	15	-	-	-	-	1	2
Other (Law enforcement XP)		12	12	-	-	-	-	-	-	-
Other		230	39	13	16	2	4	18	12	126
SOCIAL SCIENCES	Total	4,544	543	280	439	223	110	499	785	1,665
Social sciences, general		319	60	25	41	16	4	37	32	104
Anthropology		172	7	7	14	3	7	31	22	81
Archaeology		8	-	-	-	2	-	-	6	-
Economics		869	138	109	39	26	15	78	127	337
History		724	26	38	70	61	15	94	183	237
Geography		131	12	11	29	5	8	14	11	41
Political science & govt.		1,103	61	37	121	70	25	90	295	404
Sociology		762	127	31	100	37	31	96	73	267
Criminology		247	39	13	13	3	2	46	8	123
International relations		20	2	6	1	-	-	1	3	7
Afro-American (black culture)		9	-	-	1	-	-	-	-	8
Urban studies		107	67	2	4	-	1	3	7	23
Other (Pre-Law)		2	-	-	-	-	-	1	1	-
Other (Gen. statistics)		11	4	-	1	-	-	-	2	4
Other (Socio./Anthro./Pol. sci./Econ.)		15	-	-	1	-	-	6	5	3
Other (American studies)		1	-	-	-	-	-	1	-	-
Other (Social/Religion)		2	-	-	-	-	-	-	2	-
Other (Envir. sci.)		14	-	1	-	-	-	-	-	13
Other		28	-	-	4	-	2	1	8	13
THEOLOGY	Total	204	25	28	21	15	2	18	52	43
Theological professions, general		132	20	16	17	8	-	8	31	32
Religious music		6	-	1	-	-	-	-	3	2
Biblical languages		6	2	3	-	1	-	-	-	-
Religious education		46	3	8	2	4	1	8	17	3
Other (Rel. & Philos.)		3	-	-	-	2	-	1	-	-
Other (Religion)		8	-	-	-	-	1	-	1	6
Other		3	-	-	2	-	-	1	-	-
INTERDISCIPLINARY STUDIES	Total	796	76	44	69	24	24	80	129	350
General liberal arts & science		448	46	32	44	11	18	50	76	171
Biological & physical sci.		75	13	1	7	5	1	8	15	25
Humanities and social sci.		48	4	2	11	4	2	10	6	9
Engineering & other disciplines		11	3	1	-	-	-	-	4	3
Other (Bus. gen. XB)		1	1	-	-	-	-	-	-	-
Other (Self-design)		7	2	1	-	1	-	-	2	1
Other (Special major)		15	1	2	-	1	-	1	7	3
Other (Philosophy)		1	-	-	-	-	-	-	-	1
Other (Humanistic psych.)		1	-	-	-	-	-	-	-	1
Other (Environ. studies)		32	4	1	4	-	-	8	1	14
Other		157	2	4	3	2	3	3	18	122

Table 30.1

Employment Status by Degree Field for Baccalaureate
Degree Recipients for State-Owned Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared		Employed in Other Field		Employed Part Time	Un-employed	Pursuing Advanced Degrees	All Others
			In Pa.	Outside Pa.	In Pa.	Outside Pa.				
AGRICULTURE AND NATURAL RESOURCES										
Natural resources management		22	2	-	4	1	-	10	3	2
ARCHITECTURE AND ENVIRONMENTAL DESIGN										
City, community and regional planning		15	5	2	-	1	-	1	2	4
AREA STUDIES										
American studies		7	1	-	1	-	-	5	-	-
BIOLOGICAL SCIENCES	Total	337	57	12	46	2	15	63	52	90
Biology, general		315	53	7	44	2	13	59	51	86
Marine biology		3	-	-	1	-	1	-	-	1
Ecology		11	1	5	1	-	-	3	-	1
Other (Biology/Chem./Pre-Med.)		8	3	-	-	-	1	1	1	2
BUSINESS & MANAGEMENT	Total	1,300	400	91	134	23	17	230	57	348
Business & commerce, gen.		81	39	6	9	-	3	7	2	15
Accounting		517	187	34	43	4	8	104	15	122
Banking and finance		29	8	2	-	1	-	7	1	10
Business management and administration		383	96	31	63	7	5	75	13	93
Operations research		12	5	1	2	1	-	2	1	-
Marketing & purchasing		176	39	14	12	8	-	22	20	61
Real estate		2	1	-	1	-	-	-	-	-
Personnel management		64	14	2	-	1	-	6	3	38
Labor & industrial relations		1	-	-	-	-	1	-	-	-
Business economics		23	7	1	3	1	-	2	2	7
Other (Office admnr.)		12	4	-	1	-	-	5	-	2
COMMUNICATIONS	Total	104	39	10	9	4	4	11	3	24
Communications, general		72	25	5	8	4	4	7	-	19
Journalism (printed media)		32	14	5	1	-	-	4	3	5
COMPUTER AND INFORMATION SCIENCES	Total	100	48	14	3	2	-	3	4	26
Computer and information sciences, general		45	19	7	2	1	-	-	3	13
Data processing		5	4	-	-	-	-	-	-	1
Systems analysis		26	9	3	-	1	-	2	-	11
Other (Math./Comp. sci.)		24	16	4	1	-	-	1	1	1
EDUCATION	Total	6,050	1,878	704	774	121	494	899	346	834
Elementary education, gen.		1,932	555	189	224	38	186	343	80	317
English education		142	49	10	14	2	13	19	6	29
Home economics education		137	50	4	28	1	2	20	10	22
French		38	13	1	11	-	4	7	-	2
German		29	6	2	4	-	2	7	2	6
Spanish		65	17	6	9	1	3	16	6	7
Latin		2	1	-	-	-	-	-	-	1
Russian		2	-	-	-	-	-	1	-	1
Nursing education		147	74	3	33	1	8	10	1	17
Biology education		96	31	11	17	-	8	11	6	12
Chemistry education		14	9	2	1	-	-	-	1	1
Earth & space sci. education		45	19	6	3	1	1	6	3	6
Physics education		9	2	1	1	-	1	-	3	1
Social studies education		322	50	8	66	17	32	61	22	66
Speech & dramatic arts education		23	6	-	1	1	4	4	2	5
Special education, general		216	94	47	9	-	3	39	7	17
Education of mentally retarded		604	250	143	47	9	24	45	32	54

Table 30.1

Employment Status by Degree Field for Baccalaureate
Degree Recipients for State-Owned Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degrees	All Others
EDUCATION (continued)										
Education of the visually handicapped		45	13	22	2	-	4	3	1	-
Speech correction		222	46	35	21	4	8	25	57	26
Education of the emotionally disturbed		108	45	21	16	-	2	12	5	7
Education of the physically handicapped		35	12	10	2	1	2	3	1	4
Pre-elementary education (kindergarten)		120	54	13	23	3	8	14	2	3
Art education (meth. and theory)		178	56	16	32	2	23	16	7	26
Music education (methodology and theory)		264	90	43	26	6	8	35	16	40
Mathematics education (meth. & theory)		29	19	7	3	-	-	-	-	-
Science education (method. & theory)		15	1	3	2	2	-	4	1	2
Physical education		804	132	53	110	26	139	162	55	127
Health education (include family life ed.)		26	4	3	3	1	3	8	2	2
Business, commerce & dist. education		125	67	9	18	2	2	13	5	9
Industrial arts, vocational & tech. education		188	94	31	35	3	2	6	10	7
Other (Communication Arts)		48	8	5	12	-	2	6	3	12
Other (Math/Physics)		2	1	-	-	-	-	1	-	-
Other (Recreation)		9	2	-	1	-	-	1	-	5
Other (Dental Hygiene)		7	7	-	-	-	-	-	-	-
Other (T.E.Sol.)		2	1	-	-	-	-	1	-	-
FINE AND APPLIED ARTS	Total	294	48	13	40	8	17	44	27	97
Fine arts, general		1	-	-	-	-	-	-	-	1
Art (painting, drawing, sculpture)		195	16	10	34	6	12	29	18	70
Art history and appreciation		6	-	-	-	-	1	2	-	3
Music (performing, composition, theory)		10	2	-	1	1	-	1	4	1
Music (liberal arts program)		10	1	-	1	-	-	1	3	4
Music history & appreciation (musicology)		1	-	-	-	-	-	-	-	1
Dramatic arts		16	3	-	3	1	-	4	2	3
Applied design(ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)		55	26	3	1	-	4	7	-	14
FOREIGN LANGUAGES	Total	99	7	8	20	5	1	24	14	20
Foreign languages, general (Includes concentration on more than one foreign lang. without major emphasis on one language)		1	-	-	-	-	-	1	-	-
Greek		1	-	-	1	-	-	-	-	-
French		24	2	2	5	2	-	4	1	8
German		20	1	-	6	1	-	4	4	4
Spanish		47	4	6	8	2	1	13	6	7
Russian		3	-	-	-	-	-	1	1	1
Latin		3	-	-	-	-	-	1	2	-
HEALTH PROFESSIONS	Total	421	177	39	14	2	4	40	6	139
Hospital and health care administration		1	-	-	1	-	-	-	-	-
Nursing (bacc. & higher programs)		211	90	16	3	1	2	12	2	85
Medical specialties (work beyond first-professional degree, M.D.)		1	-	1	-	-	-	-	-	-
Dental hygiene (bacc. & higher programs)		9	6	-	-	-	1	-	-	2
Public health		5	1	-	1	-	-	3	-	-
Speech pathology & audio.		60	15	4	8	1	1	22	4	5
Medical lab. technologies (bacc. & higher programs)		105	59	18	1	-	-	3	-	24
Dental tech. (bacc. & higher prog.)		6	1	-	-	-	-	-	-	5
Other (Resp. therapy)		20	2	-	-	-	-	-	-	18
Other (Nuclear Bio. Med. Tech.)		3	3	-	-	-	-	-		-

Table 30.1

Employment Status by Degree Field for Baccalaureate
Degree Recipients for State-Owned Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
HOME ECONOMICS	Total	245	60	18	27	-	4	25	26	85
Home economics, general		96	27	5	2	-	-	13	3	46
Clothing and textiles		16	10	2	-	-	3	-	-	1
Family relations & child development		13	3	1	2	-	1	2	1	3
Foods and nutrition (include dietetics)		93	10	4	23	-	-	7	16	33
Institutional management & cafeteria management		27	10	6	-	-	-	3	6	2
LETTERS	Total	254	32	5	42	3	5	37	34	96
English, general		179	26	2	26	3	3	28	22	69
Speech, debate & forensic science (rhetoric & public address)		30	3	3	7	-	1	1	4	11
Teaching of English as a foreign language		9	-	-	5	-	-	1	1	2
Philosophy		26	2	-	3	-	-	6	4	11
Other (Related arts)		1	-	-	-	-	-	1	-	-
Other (Speech/Comm./Theater)		9	1	-	1	-	1	-	3	3
LIBRARY SCIENCE	Total	134	56	20	15	1	3	17	10	12
Library science, general		107	47	19	14	1	2	15	6	3
Other (Ed. related)		18	4	-	-	-	1	1	4	8
Other		9	5	1	1	-	-	1	-	1
MATHEMATICS	Total	141	52	10	15	2	4	14	20	24
Mathematics, general		133	46	10	15	1	4	14	19	24
Applied mathematics		3	2	-	-	-	-	-	1	-
Other (Math/Comp. sci.)		5	4	-	-	1	-	-	-	-
PHYSICAL SCIENCES	Total	178	36	16	14	-	5	17	50	40
Physical sciences, gen.		4	1	-	-	-	-	-	2	1
Physics, general (exclude biophysics)		19	4	2	-	-	-	1	7	5
Chemistry, general (exclude biochemistry)		87	20	9	6	-	3	10	25	14
Geology		36	7	5	4	-	1	2	9	8
Earth sciences, general		32	4	-	4	-	1	4	7	12
PSYCHOLOGY	Total	498	99	13	74	19	38	74	48	133
Psychology, general		475	95	12	73	18	38	73	42	124
Clinical psychology		23	4	1	1	1	-	1	6	9
PUBLIC AFFAIRS AND SERVICES	Total	408	111	34	53	14	19	83	15	79
Public administration		4	1	-	-	-	-	-	2	1
Parks & recreation mgt.		107	15	10	20	5	8	31	2	16
Social work and helping services (other than clinical social work)		212	63	8	26	7	11	46	5	46
Law enforcement & corrections (bacc. & higher prog.)		51	16	1	7	2	-	6	5	14
Other (Saf. mgt.)		34	16	15	-	-	-	-	1	2
SOCIAL SCIENCES	Total	1,234	271	58	145	35	35	214	102	374
Social sciences, general		48	17	5	4	1	2	13	2	4
Anthropology		60	5	2	1	1	2	17	5	27
Economics		196	72	24	10	3	7	29	15	36
History		107	3	2	22	8	2	26	19	25
Geography		85	8	6	26	3	5	12	6	19
Political science and government		224	22	2	34	7	7	30	32	90
Sociology		222	45	6	39	10	10	43	14	55
Criminology		204	28	11	6	2	-	42	5	110
International relations		4	1	-	-	-	-	1	1	1
Urban studies		71	66	-	2	-	-	-	-	3
Other (Pre-Law)		2	-	-	-	-	-	1	1	-
Other (General studies)		11	4	-	1	-	-	-	2	4
INTERDISCIPLINARY STUDIES	Total	123	16	3	17	7	1	27	20	32
General liberal arts & sci.		7	-	1	-	-	1	2	1	2
Biological & physical sci.		57	9	-	6	5	-	8	15	14
Humanities and social sci.		27	3	1	7	2	-	9	3	2
Other (Environ. Studies)		32	4	1	4	-	-	8	1	14

Table 30.2

Employment Status by Degree Field for Baccalaureate
Degree Recipients for State-Related Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
AGRICULTURE AND NATURAL RESOURCES	Total	640	99	60	55	17	26	84	59	240
Agriculture, general		40	6	1	3	1	5	4	1	19
Agronomy (field crops and crop management)		32	6	4	3	-	-	4	3	12
Animal science (husbandry)		140	20	11	5	1	5	10	21	67
Horticulture (fruit and vegetable production)		88	23	7	2	1	3	13	10	29
Agricultural economics		23	7	5	2	-	2	3	1	3
Agricultural business		22	3	4	2	1	2	1	-	9
Food science & technology		22	4	6	-	2	-	4	2	4
Forestry		135	8	9	26	7	5	23	13	44
Natural resources management		115	14	10	12	4	4	20	7	44
Other		23	8	3	-	-	-	2	1	9
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	94	17	9	4	1	3	10	9	41
Architecture		47	10	3	1	1	-	6	5	21
Landscape architecture		47	7	6	3	-	3	4	4	20
AREA STUDIES	Total	19	-	2	3	1	1	2	4	6
East Asian studies		3	-	-	1	-	-	-	-	2
Latin American studies		4	-	-	1	-	-	1	-	2
American studies		12	-	2	1	1	1	1	4	2
BIOLOGICAL SCIENCES	Total	794	51	19	50	28	31	75	179	361
Biology, general		618	35	10	41	25	29	62	140	276
Microbiology		58	7	4	6	3	-	7	14	17
Biochemistry		72	5	3	-	-	1	1	12	50
Biophysics		5	-	-	-	-	-	1	3	1
Entomology		6	-	1	-	-	1	1	1	2
Other		35	4	1	3	-	-	3	9	15
BUSINESS & MANAGEMENT	Total	1,969	560	245	155	27	53	213	114	602
Business & commerce, gen.		396	96	26	32	-	6	33	12	191
Accounting		607	203	98	36	5	18	66	47	134
Banking and finance		138	33	17	11	4	-	27	6	40
Business management & admnr.		202	58	31	18	6	6	18	12	53
Marketing and purchasing		289	82	38	26	4	15	28	13	83
Transportation & public utilities		120	25	16	12	3	1	16	5	42
Real estate		6	3	1	-	-	-	2	-	-
Insurance		72	26	1	7	2	2	3	3	28
Labor & industrial relations		58	8	8	7	1	4	10	9	11
Business economics		40	11	4	4	1	1	5	3	11
Other (Retail)		6	4	2	-	-	-	-	-	-
Other		35	11	3	2	1	-	5	4	9
COMMUNICATIONS	Total	342	79	42	27	14	36	51	18	75
Communications, general		17	2	3	1	2	-	2	2	5
Journalism (printed media)		199	45	23	14	5	25	26	7	54
Radio/television		77	20	13	8	5	9	13	9	-
Advertising		49	12	3	4	2	2	10	-	16
COMPUTER AND INFORMATION SCIENCES	Total	163	60	28	2	-	1	8	15	49
Computer and information sciences, general		161	60	28	2	-	1	8	14	48
Information sciences and systems		2	-	-	-	-	-	-	1	1

Table 30.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
EDUCATION Total	1,893	383	106	140	48	225	214	138	639
Education, general	7	-	-	3	1	1	-	2	-
Elementary education, gen.	646	106	37	43	13	88	73	44	242
Secondary education, gen.	203	33	11	20	7	23	21	12	76
Spanish	1	-	-	-	1	-	-	-	-
Special education, gen.	2	1	-	-	-	1	-	-	-
Education of the mentally retarded	167	44	22	11	5	12	17	1	55
Speech correction	60	17	1	2	2	6	7	9	16
Educational psychology (include learning theory)	1	1	-	-	-	-	-	-	-
Educational administration	2	1	-	-	-	-	-	1	-
Student personnel (counseling and guidance)	2	-	-	-	-	1	-	1	-
Reading education (methodology and theory)	22	3	-	1	-	3	-	2	13
Art education (method. & theory)	72	10	2	11	3	10	12	2	22
Music education (method. & theory)	61	13	3	8	1	8	7	12	9
Mathematics education (method. & theory)	6	-	2	1	-	-	1	2	-
Science education (method. & theory)	3	-	-	1	-	-	-	-	-
Physical education	180	41	9	11	6	31	35	12	55
Health education (include family life education)	7	-	-	1	1	1	2	-	2
Business, commerce and distributive education	52	8	5	5	-	2	2	6	24
Industrial arts, vocational & tech. education	146	65	3	7	3	7	3	17	41
Other (Social studies)	1	-	-	-	-	-	1	-	-
Other (Early childhood ed.)	51	19	5	3	-	10	10	4	-
Other (School psychology)	1	1	-	-	-	-	-	-	-
Other (Health, Phy. & Recreation)	20	8	1	1	1	5	3	1	-
Other	180	30	5	11	4	16	20	10	84
ENGINEERING Total	1,375	302	311	44	23	17	63	64	551
Aerospace, aeronautical & astronautical engineering	13	-	6	1	-	-	-	2	4
Agricultural engineering	11	3	4	-	1	1	-	-	2
Architectural engineering	78	13	31	-	1	-	1	2	30
Chemical engineering (include petroleum refining)	103	19	32	-	1	-	4	2	45
Petroleum engineering (exclude petroleum refining)	23	1	10	-	-	-	-	1	11
Civil, construction & transportation engineering	218	46	44	3	4	5	15	9	92
Electrical, electronics & communications engineering	266	53	57	5	3	1	6	9	132
Mechanical engineering	200	61	45	2	1	-	7	7	77
Industrial & management eng.	57	10	7	-	3	-	-	4	33
Metallurgical engineering	12	3	-	-	-	-	-	-	9
Materials engineering	3	1	-	-	-	-	-	-	2
Ceramic engineering	18	1	4	-	1	1	1	5	5
Mining & mineral engineering	33	14	6	-	-	-	-	-	13
Nuclear engineering	36	1	12	1	-	1	3	3	15
Environmental & sanitary eng.	34	8	9	2	1	-	5	2	7
Engineering tech. (baccalaureate & higher programs)	258	68	41	30	6	8	21	16	68
Other	12	-	3	-	1	-	-	2	6
FINE AND APPLIED ARTS Total	368	35	18	36	7	38	39	44	151
Fine arts, general	1	-	-	1	-	-	-	-	-
Art (painting, drawing, sculpture)	164	14	8	14	2	18	21	20	67
Art history & appreciation	43	3	2	1	1	4	2	7	23
Music history & appreciation (musicology)	2	-	-	-	1	-	-	1	-
Music (performing, comp., theory)	24	3	1	3	1	3	3	6	4
Music (liberal arts program)	6	-	-	-	-	-	-	-	6
Dramatic arts	50	4	3	3	1	6	4	3	26
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)	27	10	4	3	1	3	2	3	1
Cinematography	36	1	-	7	-	1	5	3	19
Other	15	-	-	4	-	3	2	1	5

Table 30.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
FOREIGN LANGUAGES	Total	136	6	7	11	6	16	12	17	61
French		47	4	2	7	2	3	4	3	22
German		21	-	1	1	1	2	2	5	9
Italian		7	-	-	1	-	1	1	2	2
Spanish		42	2	3	1	2	9	4	4	17
Russian		15	-	1	1	-	-	1	3	9
Chinese		1	-	-	-	-	-	-	-	1
Japanese		1	-	-	-	-	-	-	-	1
Hebrew		2	-	-	-	1	1	-	-	-
HEALTH PROFESSIONS	Total	920	324	64	33	3	19	28	28	421
Health professions, general		48	5	3	3	1	1	11	7	17
Hospital and health care admnr.		61	13	3	6	2	-	9	4	24
Nursing (baccalaureate and higher programs)		436	170	43	7	-	7	5	7	197
Medicine, M.D. degree		4	-	-	-	-	1	1	2	-
Occupational therapy		24	14	2	7	-	1	-	-	-
Pharmacy		92	21	3	-	-	3	-	2	63
Physical therapy		69	30	3	2	-	-	-	-	34
Medical lab. technologies (bacc. & higher programs)		101	45	5	3	-	5	1	5	37
Other (Pre-Med.)		1	1	-	-	-	-	-	-	-
Other		84	25	2	5	-	1	1	1	49
HOME ECONOMICS	Total	326	66	20	24	12	17	43	29	115
Family relations & child development		196	36	2	20	9	16	37	10	66
Foods and nutrition (include dietetics)		53	8	4	3	2	1	4	16	15
Institutional management & cafeteria management		77	22	14	1	1	-	2	3	34
LAW										
Law, general		3	-	-	-	-	-	1	1	1
LETTERS	Total	555	54	34	39	4	32	54	69	269
English, general		183	21	19	13	1	10	22	23	74
Literature, English		54	1	4	5	-	3	4	9	28
Comparative literature		1	-	-	-	-	-	1	-	-
Classics		3	-	-	-	-	-	-	-	3
Speech, debate & forensic science (rhetoric & pub. address)		90	16	2	7	2	7	13	7	36
Creative writing		3	1	-	-	-	-	-	-	2
Philosophy		52	1	3	2	1	-	3	10	32
Linguistics		7	-	-	-	-	1	-	2	4
Religious studies (exclude theo. prof.)		14	-	2	-	-	2	1	4	5
Other		148	14	4	12	-	9	10	14	85
MATHEMATICS	Total	150	26	12	9	6	6	11	15	65
Mathematics, general		137	23	12	7	6	6	11	15	57
Applied mathematics		13	3	-	2	-	-	-	-	8
PHYSICAL SCIENCES	Total	548	54	42	24	14	12	29	140	233
Physics, general (exclude biophysics)		45	1	3	1	1	3	5	8	23
Chemistry, general (exclude biochemistry)		158	24	9	2	2	3	5	36	77
Astronomy		4	2	-	-	-	-	-	1	1
Atmospheric sciences & meterorology		47	4	6	-	1	2	3	8	23
Geology		57	5	13	3	2	-	3	14	17
Earth sciences, general		30	-	1	5	2	1	4	3	14
Metallurgy		22	9	3	-	1	-	-	1	8
Other		185	9	7	13	5	3	9	69	70

Table 30.2

Employment Status by Degree Field for Baccalaureate Degree Recipients for State-Related Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
PSYCHOLOGY									
Psychology, general	602	51	33	33	9	33	45	81	317
PUBLIC AFFAIRS AND SERVICES Total	906	171	47	81	23	41	145	60	338
Community services, general	45	7	2	3	1	1	4	2	25
Public administration	15	3	-	2	-	-	-	1	9
Parks and recreation mgt.	164	26	10	13	5	8	34	1	67
Social work and helping services (other than clinical social work)	216	53	14	16	5	18	53	24	33
Law enforcement & corrections (bacc. & higher programs)	216	43	6	31	8	10	34	14	70
International public service (other than diplomatic service)	20	-	2	-	2	-	2	6	8
Other	230	39	13	16	7	4	18	12	126
SOCIAL SCIENCES Total	1,355	110	76	105	37	46	98	169	714
Social sciences, general	157	26	6	17	4	1	13	16	74
Anthropology	81	1	3	9	-	4	11	13	40
Economics	314	32	15	12	4	7	12	23	209
History	196	8	19	14	9	8	15	33	90
Geography	46	4	5	3	2	3	2	5	22
Political sci. and government	323	15	18	33	13	10	23	59	152
Sociology	169	23	9	10	5	10	18	6	88
Afro-American (black culture studies	9	-	-	1	-	-	-	-	8
Urban studies	32	1	1	2	-	1	3	6	18
Other	28	-	-	4	-	2	1	8	13
INTERDISCIPLINARY STUDIES Total	565	46	34	42	11	18	48	83	283
General liberal arts and science	391	40	29	38	9	14	45	65	151
Biological & physical sci.	15	4	1	1	-	1	-	-	8
Humanities and social sci.	2	-	-	-	-	-	-	-	2
Other	157	2	4	3	2	3	3	18	122

Table 30.3

Employment Status by Degree Field for Baccalaureate
Degree Recipients for State-Aided Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
AGRICULTURE AND NATURAL RESOURCES	Total	184	75	69	9	5	3	5	11	7
Agronomy (field crops, and crop management)		21	6	12	-	-	-	-	1	2
Animal science (husbandry)		34	9	12	4	1	2	3	3	-
Dairy science (husbandry)		14	10	3	-	-	-	-	1	-
Horticulture (fruit and vegetable production)		31	8	11	3	3	1	1	2	2
Ornamental horticulture (floriculture, nursery sci.)		71	38	28	1	1	-	-	-	3
Food science & technology		13	4	3	1	-	-	1	4	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN										
Environmental design, gen.		5	3	-	-	-	-	1	-	1
BIOLOGICAL SCIENCES										
Biology, general		34	5	7	7	1	1	2	7	4
BUSINESS AND MANAGEMENT	Total	311	180	89	3	1	-	18	13	27
Business & commerce, gen.		4	3	1	-	-	-	-	-	-
Accounting		77	56	7	-	-	-	6	3	5
Banking and finance		10	6	2	-	-	-	-	2	-
Business management & admnr.		60	37	10	3	1	-	3	2	4
Operations research		4	2	1	-	-	-	-	-	1
Marketing & purchasing		67	47	11	-	-	-	3	2	4
Other (Tex. Mgt. & Marketing)		56	14	23	-	-	-	5	4	10
Other (Textile retailing)		21	13	6	-	-	-	1	-	1
Other (Apparel mgt.)		12	2	8	-	-	-	-	-	2
EDUCATION										
Art education (method. & theory)		9	2	1	-	-	2	-	-	4
ENGINEERING										
Textile engineering		27	2	7	-	-	-	1	6	11
FINE AND APPLIED ARTS	Total	263	32	37	6	3	11	12	4	158
Art (painting, drawing, sculpture)		81	1	2	2	1	2	-	1	72
Music (performing, composition, theory)		8	6	-	2	-	-	-	-	-
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)		157	23	35	1	2	8	11	3	74
Cinematography		5	-	-	-	-	-	1	-	4
Photography		12	2	-	1	-	1	-	-	8
HEALTH PROFESSIONS	Total	89	62	24	-	-	-	-	2	1
Nursing (baccalaureate and higher programs)		65	43	20	-	-	-	-	1	1
Medical lab. technologies (bacc. & higher programs)		24	19	4	-	-	-	-	1	-
PHYSICAL SCIENCES	Total	14	5	5	-	-	-	-	2	2
Chemistry, general (exclude biochemistry)		7	1	4	-	-	-	-	1	1
Other (Tex. chemistry)		5	2	1	-	-	-	-	1	1
Other (Chem/Bus. concentration)		2	2	-	-	-	-	-	-	-
PUBLIC AFFAIRS & SERVICES	Total	14	14	-	-	-	-	-	-	-
Law enforcement & corrections (Criminal Justice)		2	2	-	-	-	-	-	-	-
Other (Law enforcement XP)		12	12	-	-	-	-	-	-	-
INTERDISCIPLINARY STUDIES										
Other (Business, gen. XB)		1	1	-	-	-	-	-	-	-

Table 30.4

Employment Status by Degree Field for Baccalaureate
Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
AGRICULTURE AND NATURAL RESOURCES										
Forestry		3	-	-	-	-	-	-	3	-
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	55	13	8	1	6	-	-	5	22
Environmental design, gen.		1	-	-	-	-	-	-	1	-
Architecture		26	8	4	1	1	-	-	2	10
Interior design		22	5	4	-	3	-	-	-	10
City, community and regional planning		5	-	-	-	1	-	-	2	2
Other (Performing arts)		1	-	-	-	1	-	-	-	-
AREA STUDIES	Total	29	1	-	4	6	-	1	6	11
Asian studies, general		1	-	-	-	-	-	-	-	1
European studies, general		8	-	-	-	3	-	-	-	5
American studies		20	1	-	4	3	-	1	6	5
BIOLOGICAL SCIENCES	Total	1,169	111	67	53	28	20	146	501	243
Biology, general		1,036	103	55	49	26	20	114	437	232
Plant physiology		1	1	-	-	-	-	-	-	-
Microbiology		1	1	-	-	-	-	-	-	-
Biochemistry		19	1	-	-	-	-	2	9	7
Biophysics		3	-	-	-	-	-	-	2	1
Cell biology (cytology, cell physiology)		19	2	6	-	-	-	1	8	2
Marine biology		1	-	-	-	-	-	-	1	-
Ecology		8	-	3	3	1	-	-	1	-
Other (Natural sci.)		59	-	-	-	-	-	24	35	-
Other (Biology/Psychology)		2	-	-	-	-	-	-	2	-
Other (ESRM)		10	-	1	-	-	-	5	3	1
Other (Bio/Econ.)		1	-	-	-	-	-	-	1	-
Other (General sci.)		9	3	2	1	1	-	-	2	-
BUSINESS & MANAGEMENT	Total	2,909	959	425	132	64	80	445	236	568
Business & commerce, gen.		383	97	54	14	16	16	64	55	67
Accounting		1,208	411	210	44	19	27	197	68	232
Business statistics		2	1	-	-	-	-	1	-	-
Banking and finance		149	37	26	10	6	2	30	11	27
Business management admnr.		847	304	105	46	20	29	96	84	163
Hotel & restaurant mgt.		6	3	2	1	-	-	-	-	-
Marketing & purchasing		169	64	19	7	3	5	42	4	25
Transportation & public utilities		12	7	-	4	-	-	1	-	-
Real estate		1	1	-	-	-	-	-	-	-
Insurance		2	2	-	-	-	-	-	-	-
Secretarial studies (bacc. & higher prog.)		7	3	3	1	-	-	-	-	-
Personnel management		1	1	-	-	-	-	-	-	-
Labor & industrial relations		4	1	-	-	-	-	-	2	1
Business economics		103	18	6	5	-	1	8	12	53
Other (U.S.Govt. Invest.)		1	1	-	-	-	-	-	-	-
Other		14	8	-	-	-	-	6	-	-
COMMUNICATIONS	Total	144	32	12	22	9	3	29	10	27
Communications, general		100	21	9	15	5	2	20	7	21
Journalism (printed media)		30	9	2	3	2	-	8	2	4
Radio/television		7	1	-	1	1	1	1	-	2
Communication media (use of video-tape, films, etc., oriented specifically toward radio/tele.)		5	1	1	2	1	-	-	-	-
Other (Theatre/Comm.)		2	-	-	1	-	-	-	1	-
COMPUTER & INFORMATION SCIENCE	Total	52	28	11	4	-	-	4	3	2
Computer and information sciences, general		33	16	8	3	-	-	2	3	1
Information sciences and systems		4	3	1	-	-	-	-	-	-
Data processing		2	2	-	-	-	-	-	-	-
Computer programming		7	2	2	-	-	-	2	-	1
Other (Bureau Info. Sys.)		6	5	-	1	-	-	-	-	-

Table 30.4

Employment Status by Degree Field for Baccalaureate Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
EDUCATION	Total	1,700	467	263	168	71	105	212	128	286
Education, general		86	15	18	8	4	2	9	20	10
Elementary education, gen.		592	216	117	60	28	30	47	40	54
Secondary education, gen.		90	11	5	6	3	2	28	9	26
English education		88	17	5	12	5	7	9	8	25
Home economics education		42	10	4	6	1	5	4	1	11
French		28	3	4	-	5	1	5	3	7
German		4	-	-	-	-	-	2	1	1
Spanish		12	2	1	-	-	-	3	2	4
Latin		2	-	2	-	-	-	-	-	-
Nursing education		8	3	2	-	-	-	-	-	3
Biology education		17	4	4	1	-	-	2	1	5
Chemistry education		4	-	2	-	-	-	2	-	-
Physics education		5	-	1	1	-	-	1	-	2
Social studies education		85	19	10	9	1	9	19	2	16
Speech & dramatic arts education		21	1	-	2	3	-	-	2	13
Junior high school education		3	2	1	-	-	-	-	-	-
Junior & community college ed.		2	1	-	-	-	-	-	1	-
Special education, general		122	37	13	2	1	7	30	2	30
Education of mentally retarded		13	6	6	-	-	-	-	1	-
Education of the gifted		1	1	-	-	-	-	-	-	-
Speech correction		12	1	-	4	-	2	2	3	-
Pre-elementary education (kindergarten)		79	28	8	5	-	11	5	5	17
Education statistics & research		1	1	-	-	-	-	-	-	-
Art education (meth. & theory)		81	17	9	10	4	5	18	5	13
Music education (meth. & theory)		166	33	31	17	10	15	19	11	30
Mathematics education (meth. & theory)		47	9	15	7	3	2	1	4	6
Science education (method. & theory)		2	-	-	-	-	-	-	-	2
Physical education		35	7	2	10	2	6	-	4	4
Business, commerce & dist. ed.		51	23	3	8	1	1	6	3	6
Other (communication)		1	-	-	-	-	-	-	-	1
ENGINEERING	Total	1,009	312	411	5	9	-	56	97	119
Engineering, general		52	15	14	-	-	-	3	12	8
Chemical engineering (include petroleum refining)		158	34	86	1	2	-	10	12	13
Civil, construction & transp. engineering		185	51	69	3	5	-	16	20	21
Electrical, electronics & communications engineer		235	82	102	-	1	-	5	29	16
Mechanical engineering		163	49	71	-	1	-	5	11	26
Industrial & management eng.		64	21	28	1	-	-	-	8	6
Metallurgical engineering		43	14	20	-	-	-	3	2	4
Materials engineering		4	1	2	-	-	-	-	1	-
Engineering physics		2	-	-	-	-	-	-	1	1
Engineering tech. (bacc. & higher programs		97	45	18	-	-	-	13	-	21
Other (Fund. sci.)		6	-	1	-	-	-	1	1	3
FINE AND APPLIED ARTS	Total	439	66	51	26	25	16	30	66	159
Fine arts, general		86	20	13	1	2	5	6	14	25
Art (painting, drawing, sculpture)		100	9	6	9	7	5	9	10	45
Art history and appreciation		31	1	-	2	2	1	3	10	12
Music (performing, composition, theory)		47	1	4	6	4	1	1	13	17
Music, (liberal arts program)		51	8	2	2	6	-	3	13	17
Music history & appreciation (musicology)		4	-	-	1	-	-	-	2	1
Dramatic arts		59	11	9	3	1	2	4	3	26
Dance		4	-	1	-	-	1	2	-	-
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)		53	16	16	2	3	1	2	1	12
Other (Music therapy)		3	-	-	-	-	-	-	-	3
Other (Art history/Economics)		1	-	-	-	-	-	-	-	1

Table 30.4

Employment Status by Degree Field for Baccalaureate
Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field	Total	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
		In Pa.	Outside Pa.	In Pa.	Outside Pa.				
FOREIGN LANGUAGES Total	250	18	16	19	26	5	22	59	85
Foreign languages, general	27	4	3	2	3	1	3	6	5
French	86	7	5	6	12	3	8	17	28
German	38	4	2	3	1	–	1	9	18
Italian	8	–	–	1	–	–	–	5	2
Spanish	58	2	5	5	5	–	5	10	26
Russian	11	–	–	1	1	–	3	4	2
Japanese	2	–	–	–	1	–	–	–	1
Latin	2	–	–	1	2	–	–	2	–
Greek, classical	9	–	–	–	1	1	1	3	3
Hebrew (Lit.)	7	1	1	1	2	–	–	2	–
Other (French/Psych. Classics)	2	–	–	–	1	1	1	1	–
HEALTH PROFESSIONS Total	611	313	89	2	1	10	31	34	131
Health professions, general	16	6	2	–	–	–	1	6	1
Hospital & health care administration	11	1	–	1	1	–	–	–	8
Nursing (baccalaureate and higher programs)	427	242	56	–	–	6	22	11	90
Occupational therapy	18	13	5	–	–	–	–	–	–
Optometry	1	–	–	–	–	–	–	1	–
Medical record librarianship	17	7	8	–	–	–	2	–	–
Speech pathology & audio.	23	3	1	–	–	3	6	8	2
Medical lab. tech. (bacc. & higher prog.)	94	41	17	1	–	1	–	6	28
Other (Health/Phys.ed./Rec.	4	–	–	–	–	–	–	2	2
HOME ECONOMICS Total	98	23	17	6	5	5	11	8	23
Home economics, general	31	7	3	2	3	3	2	2	9
Clothing and textiles	8	1	2	–	1	–	3	–	1
Consumer economics & home management	5	–	2	–	1	1	–	1	–
Family relations & child development	1	1	–	–	–	–	–	–	–
Foods and nutrition (incl. dietetics)	37	8	8	4	–	1	4	5	2
Other (Merchandising/Retailing)	2	1	–	–	–	–	–	–	1
Other (Home Ec. in Business)	14	5	2	–	–	–	2	–	5
LAW Total	8	3	–	–	–	–	–	3	2
Law (Pre-Law)	6	1	–	–	–	–	–	–	–
Other (Paralegal trainee)	2	2	–	–	–	–	–	–	–
LETTERS Total	829	73	74	93	60	18	69	164	278
English, general	520	53	40	56	33	12	50	94	182
Literature, English	35	2	6	2	1	–	3	4	17
Comparative literature	1	–	–	–	–	–	1	–	–
Classics	11	1	–	–	1	–	–	2	7
Creative writing	14	3	1	1	–	–	1	–	8
Philosophy	80	–	2	8	9	–	6	32	23
Religious studies (exclude theological professions)	161	13	21	26	16	6	7	32	40
Other (English Lit./Psych.)	1	–	–	–	–	–	–	–	1
Other (English Lit./Music	1	–	–	–	–	–	1	–	–
Other (Technical writing)	5	1	4	–	–	–	–	–	–
LIBRARY SCIENCE	7	2	1	–	–	–	2	1	1
Library science, general	357	106	64	15	8	3	22	80	59
MATHEMATICS Total	349	101	63	15	8	3	22	79	58
Mathematics, general	5	4	–	–	–	–	–	–	1
Statistics, mathematical & theoretical	1	1	–	–	–	–	–	–	–
Applied mathematics	2	–	1	–	–	–	–	1	–
Other (Actuarial)	541	62	42	12	13	2	22	278	110
PHYSICAL SCIENCES Total	12	1	4	–	–	–	5	2	–
Physical sciences, general	115	12	8	3	3	–	6	62	21
Physics, general (exclude biophysics)	325	46	18	6	3	2	13	174	63
Chemistry, general (exclude biochemistry)	2	–	–	–	–	–	–	2	–
Pharmaceutical chemistry	1	–	–	–	–	–	1	–	–
Astronomy	84	3	12	3	7	–	2	33	24
Geology	1	–	–	–	–	–	1	–	–
Oceanography	1	–	–	–	–	–	–	–	–
Other (Chem/Ancient Hist.)									

Table 30.4

Employment Status by Degree Field for Baccalaureate
Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
PSYCHOLOGY	Total	926	113	50	84	47	19	119	211	283
Psychology, general		859	96	49	73	44	16	112	199	270
Clinical psychology		23	3	-	7	-	-	-	3	10
Psychology for counseling		7	4	-	2	-	-	1	-	-
Social psychology		4	3	-	-	-	-	1	-	-
Other (Mental health)		22	4	1	2	2	2	3	8	-
Other (Hum. Serv. Psych.)		7	2	-	-	1	1	1	1	1
Other (Psychology/Religion)		1	-	-	-	-	-	-	-	1
Other (Teaching)		1	1	-	-	-	-	-	-	-
Other (Psych/Econ.)		1	-	-	-	-	-	-	-	1
Other (Psych/Biol.)		1	-	-	-	-	-	1	-	-
PUBLIC AFFAIRS AND SERVICES	Total	487	147	44	55	16	12	54	42	117
Community services, general		1	1	-	-	-	-	-	-	-
Parks and recreation mgt.		9	2	3	-	-	-	3	-	1
Social work and helping services (other than clinical social work)		236	67	13	22	9	5	22	32	66
Law enforcement & corrections (bacc. & higher programs)		241	77	28	33	7	7	29	10	50
SOCIAL SCIENCES	Total	1,955	162	146	189	151	29	187	514	577
Social sciences, general		114	17	14	20	11	1	11	14	26
Anthropology		31	1	2	4	2	1	3	4	14
Archaeology		8	-	-	-	2	-	-	6	-
Economics		359	34	70	17	19	1	37	89	92
History		421	15	17	34	44	5	53	131	122
Political science & govt.		556	24	17	54	50	8	37	204	162
Sociology		371	59	16	51	22	11	35	53	124
Criminology		43	11	2	7	1	2	4	3	13
International relations		16	1	6	1	-	-	-	2	6
Urban studies		4	-	1	-	-	-	-	1	2
Other (Socio/Anthro. Poly.Sci./Econ.)		15	-	-	1	-	-	6	5	3
Other (American studies)		1	-	-	-	-	-	1	-	-
Other (Social/Religion)		2	-	-	-	-	-	-	2	-
Other (Environ. Sci.)		14	-	1	-	-	-	-	-	13
THEOLOGY	Total	204	25	28	21	15	2	18	52	43
Theological profession		132	20	16	17	8	-	8	31	32
Religious music		6	-	1	-	-	-	-	3	2
Biblical languages		6	2	3	-	1	-	-	-	-
Religious education		46	3	8	2	4	1	8	17	3
Other (Religion & Philos.)		3	-	-	-	2	-	1	-	-
Other (Religion)		8	-	-	-	-	1	-	1	6
Other		3	-	-	2	-	-	1	-	-
INTERDISCIPLINARY STUDIES	Total	107	13	7	10	6	5	5	26	35
General liberal arts and science		50	6	2	6	2	3	3	10	18
Biological & physical science		3	-	-	-	-	-	-	-	3
Humanities & social science		19	1	1	4	2	2	1	3	5
Engineering & other disciplines		11	3	1	-	-	-	-	4	3
Other (Self Design)		7	2	1	-	1	-	-	2	1
Other (Special Major)		15	1	2	-	1	-	1	7	3
Other (Humanistic Psych.)		1	-	-	-	-	-	-	-	1
Other (Philosophy)		1	-	-	-	-	-	-	-	1

Table 31.0

Employment Status by Degree Field for Master's Degree Recipients for All Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others[1]
AGRICULTURE AND NATURAL RESOURCES	Total	49	5	3	-	1	1	2	11	26
Agronomy (field crops, and crop management		6	-	1	-	-	1	1	2	1
Animal science (husbandry)		7	-	-	-	-	-	-	1	6
Dairy science (husbandry)		5	1	-	-	-	-	-	2	2
Fish, game and wildlife management		8	1	-	-	1	-	-	1	5
Horticulture (fruit and vegetable production)		6	2	-	-	-	-	1	2	1
Agricultural economics		6	1	-	-	-	-	-	1	4
Food science & technology		8	-	2	-	-	-	-	1	5
Natural resources management		3	-	-	-	-	-	-	1	2
ARCHITECTURE AND ENVIRONMENTAL DESIGN	Total	51	11	9	2	1	-	1	2	25
Architecture		17	2	3	1	-	-	-	1	10
City, community, regional planning		34	9	6	1	1	-	1	1	15
AREA STUDIES										
American studies		12	-	-	2	-	-	3	1	6
BIOLOGICAL SCIENCES	Total	162	36	18	5	2	3	9	26	63
Biology, general		68	17	5	3	-	2	5	7	29
Plant pharmacology		13	-	5	-	-	-	1	1	6
Zoology, general		2	1	-	1	-	-	-	-	-
Pathology, human & animal		2	-	-	-	-	-	-	-	2
Pharmacology, human & animal		2	1	-	-	-	-	-	-	1
Physiology, human & animal		17	1	1	1	1	1	-	7	5
Microbiology		19	11	4	-	-	-	-	2	2
Anatomy		1	-	-	-	-	-	-	-	1
Biochemistry		14	2	-	-	1	-	2	4	5
Biophysics		3	-	-	-	-	-	-	-	3
Biometrics & biostatistics		2	2	-	-	-	-	-	-	-
Ecology		9	1	2	-	-	-	-	1	5
Entomology		6	-	1	-	-	-	1	2	2
Genetics		2	-	-	-	-	-	-	1	1
Other (Pharmacognosy)		2	-	-	-	-	-	-	1	1
BUSINESS AND MANAGEMENT	Total	925	286	156	30	8	6	29	33	377
Business & commerce, general		41	16	2	3	-	-	-	1	19
Accounting		53	19	10	3	-	1	4	1	15
Banking and finance		54	15	9	3	1	-	7	1	18
Business management & admnr.		655	207	121	15	4	3	13	22	270
Operations research		2	1	-	-	-	-	-	1	-
Marketing and purchasing		49	16	8	1	-	2	4	4	14
Insurance		2	1	-	1	-	-	-	-	-
International business		1	-	-	-	1	-	-	-	-
Labor & industrial relations		59	10	3	4	2	-	1	-	39
Business economics		8	-	3	-	-	-	-	3	2
Other		1	1	-	-	-	-	-	-	-
COMMUNICATIONS	Total	69	15	12	4	3	1	4	3	27
Communications, general		25	7	3	4	1	1	1	2	6
Journalism (printed media)		22	1	5	-	2	-	2	-	12
Radio/television		1	1	-	-	-	-	-	-	-
Communication media (use of videotape, films, etc., oriented specifically toward radio/television		1	1	-	-	-	-	-	-	-
Other (Instr. & Org.)		16	5	4	-	-	-	-	-	7
Other (Pub. aff.)		4	-	-	-	-	-	1	1	2
COMPUTER AND INFORMATION SCIENCES	Total	63	10	12	1	-	-	-	4	36
Computer and information sciences, general		53	9	11	1	-	-	-	3	29
Information sciences and systems		8	1	-	-	-	-	-	-	7
Systems analysis		2	-	1	-	-	-	-	1	-

[1]The "all others" category represents those not responding to the survey which should represent the difference between the number of respondents and the number of graduates.

Table 31.0

Employment Status by Degree Field for Master's Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
EDUCATION Total	3,137	1,463	207	122	21	75	122	149	978
Education, general	182	129	23	5	2	4	2	7	10
Elementary education, general	566	301	15	16	-	11	17	28	178
Secondary education, general	65	19	1	2	-	2	1	4	36
English education	54	25	2	1	-	1	2	2	21
Home economics education	26	16	1	5	-	1	1	1	1
Spanish	5	4	-	-	-	-	-	-	1
All other foreign language ed.	4	2	1	-	-	-	-	-	1
Biology education	3	2	-	-	-	-	-	-	1
Physics education	8	4	-	-	-	-	-	-	4
Social studies education	49	25	6	3	-	-	-	2	13
Junior high school education	3	1	-	-	-	-	-	-	2
Higher education, general	11	3	-	-	1	1	1	1	4
Adult & continuing education	16	-	1	1	-	-	-	-	14
Special education, general	134	75	16	7	1	1	3	2	29
Administration of special ed.	40	25	1	-	-	1	-	-	13
Education of the mentally retarded	100	46	8	-	1	-	1	-	44
Education of the deaf	8	4	1	-	1	-	1	-	1
Speech correction	127	54	23	5	-	-	12	1	32
Education of the emotionally disturbed	92	66	3	3	-	1	8	-	11
Special learning disabilities	5	1	-	-	-	-	-	-	4
Education of the physically handicapped	4	4	-	-	-	-	-	-	-
Social foundations (history & philosophy of education	9	1	-	1	-	-	-	-	7
Education psychology (include learning theory)	67	27	5	8	-	2	3	16	6
Pre-elementary education	28	13	2	-	-	2	3	2	6
Student personnel (counseling and guidance)	544	189	36	35	9	17	26	16	216
Educational administration	69	22	4	1	-	1	-	9	32
Educational supervision	11	4	-	-	-	-	-	-	7
Curriculum and instruction	64	20	4	3	-	-	4	1	32
Reading education (method. & theory)	346	164	18	10	3	17	17	10	107
Art education (method. & theory)	37	19	1	-	-	4	1	1	11
Music education (method. & theory)	60	34	11	2	-	-	3	1	9
Mathematics education (method. and theory)	27	20	-	1	-	1	1	3	1
Science education (method. & theory)	19	9	2	-	-	-	1	2	5
Physical education	77	16	7	1	1	1	3	8	40
Health education (include family life education)	4	1	1	1	-	-	-	-	1
Business, commerce and distributive education	85	39	3	3	-	1	4	8	27
Industrial arts, vocational & tech. education	87	43	5	6	1	-	1	9	22
Other (School Psych.)	10	4	1	-	-	1	1	3	-
Other (Learning res.)	17	1	-	-	-	-	1	-	15
Other (International media)	26	9	2	1	1	3	3	7	-
Other (Urban education)	4	2	1	-	-	-	-	1	-
Other (HPER)	14	7	1	-	-	1	1	4	-
Other	30	13	1	1	-	1	-	-	14
ENGINEERING Total	474	90	93	3	5	-	5	50	228
Engineering, general	16	7	8	-	-	-	-	-	1
Aerospace, aeronautical & astronautical engineering	6	-	1	1	-	-	-	-	4
Agricultural engineering	5	1	1	-	-	-	-	1	2
Architectural engineering	4	-	-	-	-	-	-	-	4
Bioengineering and biomedical engineering	9	2	3	-	1	-	-	2	1
Chemical engineering (include petroleum refining)	58	9	9	-	-	-	4	10	26
Petroleum engineering (exclude petroleum refining)	7	1	1	-	-	-	-	1	4
Civil, construction & transportation engineering	62	16	18	-	1	-	-	3	24
Electrical, electronics & communications engineering	69	12	21	-	1	-	-	13	22
Mechanical engineering	37	4	3	-	-	-	-	9	21
Industrial & management eng.	54	11	3	1	1	-	1	5	32
Metallurgical engineering	19	-	4	-	-	-	-	4	11
Materials engineering	1	-	-	-	-	-	-	-	1
Ceramic engineering	4	1	-	-	-	-	-	-	3
Mining & mineral engineering	16	4	3	-	-	-		2	7
Engineering physics	1	-	-	-	-	-	-	-	1
Nuclear engineering	19	-	9	-	-	-	-	-	10
Engineering mechanics	7	-	1	-	-	-	-	-	6
Environmental & sanitary eng.	3	1	1	-	-	-	-	-	1
Engineering tech.	4	1	-	-	-	-	-	-	3
Other	73	20	7	1	1	-	-	-	44

Table 31.0

Employment Status by Degree Field for Master's Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
FINE AND APPLIED ARTS	Total	157	30	13	8	-	14	7	4	81
Art (painting, drawing, sculpture)		30	10	3	2	-	1	3	-	11
Art history & appreciation		7	1	-	-	-	-	-	-	6
Music (performing, composition, theory)		31	5	1	1	-	7	1	2	14
Music (liberal arts program)		3	1	-	-	-	-	-	1	1
Music history & appreciation (musicology)		3	1	-	1	-	1	-	-	-
Dramatic arts		64	11	8	2	-	-	3	1	39
Dance		14	-	1	1	-	2	-	-	10
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)		2	1	-	-	-	1	-	-	-
Other (Opera)		1	-	-	-	-	1	-	-	-
Other (Printmaking)		1	-	-	1	-	-	-	-	-
Other (Photography)		1	-	-	-	-	1	-	-	-
FOREIGN LANGUAGES	Total	62	7	4	1	3	4	3	10	30
French		16	1	2	1	-	1	1	3	7
German		14	2	1	-	-	1	1	2	7
Italian		1	-	-	-	-	-	-	-	1
Spanish		17	4	1	-	3	2	-	3	4
Slavic languages (other than Russian)		2	-	-	-	-	-	1	-	1
Other		12	-	-	-	-	-	-	2	10
HEALTH PROFESSIONS	Total	308	61	19	7	5	8	15	11	182
Hospital & health care adm.		15	5	1	3	4	-	1	1	-
Nursing (bacc. & higher prog.)		83	19	7	-	-	3	2	2	50
Dental specialties (work beyond first prof. degree, D.D.S. or D.M.D.)		11	-	-	-	-	1	-	1	9
Pharmacy		7	2	1	1	-	-	-	1	2
Public health		126	16	8	1	-	-	6	3	92
Speech pathology & audio.		13	3	2	-	1	1	1	-	5
Clinical social work (med. & psychiatric & specialized rehab. ser.)		17	7	-	-	-	-	2	1	7
Medical lab. technologies (bacc. & higher programs)		2	-	-	-	-	1	-	1	-
Other		34	9	-	2	-	2	3	1	17
HOME ECONOMICS	Total	39	1	3	-	-	-	1	10	24
Family relations & child dev.		25	-	1	-	-	-	-	8	16
Foods & nutrition (include dietetics)		14	1	2	-	-	-	1	2	8
LAW										
Law, general		20	17	1	-	2	-	-	-	-
LETTERS	Total	171	27	5	9	4	13	6	19	88
English, general		90	20	4	5	4	6	4	5	42
Comparative literature		4	-	1	-	-	-	-	-	3
Classics		4	-	-	-	-	-	-	1	3
Linguistics (include phonetics, semantics & philology)		15	-	-	-	-	1	-	2	12
Speech, debate & forensic science (rhetoric & public address)		24	6	-	4	-	4	1	1	8
Philosophy		23	-	-	-	-	-	-	6	17
Religious studies (exclude theological professions)		7	-	-	-	-	2	1	3	1
Other		4	1	-	-	-	-	-	1	2
LIBRARY SCIENCE	Total	51	18	4	4	2	4	6	1	12
Library science, general		32	8	3	3	1	4	4	1	8
Other (Educated related)		19	10	1	1	1	-	2	-	4
MATHEMATICS	Total	117	24	15	4	1	1	5	9	58
Mathematics, general		101	23	11	4	1	1	5	6	50
Statistics, mathematical & theoretical		13	1	2	-	-	-	-	2	8
Applied mathematics		3	-	2	-	-	-	-	1	-

Table 31.0

Employment Status by Degree Field for Master's Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
PHYSICAL SCIENCES	Total	157	26	22	4	3	1	7	17	77
Physical sciences, general		18	6	1	-	-	-	-	9	2
Physics, general (exclude biophysics)		23	-	2	-	-	-	2	2	7
Chemistry, general (exclude biochemistry)		39	5	4	2	-	-	2	2	24
Pharmaceutical chemistry		5	-	-	1	-	1	1	2	-
Astronomy		2	-	-	-	-	-	-	-	2
Atmospheric sciences & meteorology		22	3	7	-	1	-	1	1	9
Geology		13	1	2	1	-	-	-	1	8
Geochemistry		3	-	1	-	-	-	-	-	2
Geophysics and seismology		6	1	2	-	-	-	-	-	3
Earth sciences, general		12	8	1	-	-	-	-	-	3
Metallurgy		3	-	-	-	-	-	-	-	3
Other		11	2	2	-	2	-	1	-	4
PSYCHOLOGY	Total	121	34	5	6	3	5	6	22	40
Psychology, general		84	22	-	5	3	3	2	19	30
Clinical psychology		15	5	2	1	-	1	2	1	3
Psychology for counseling		6	1	1	-	-	-	2	2	-
Social psychology		8	3	-	-	-	1	-	-	4
Other (Community)		3	1	2	-	-	-	-	-	-
Other		5	2	-	-	-	-	-	-	3
PUBLIC AFFAIRS AND SERVICES	Total	569	103	76	17	9	6	32	11	315
Community services, general		3	1	2	-	-	-	-	-	-
Public administration		332	54	63	11	9	1	16	5	173
Parks & recreation management		26	1	5	-	-	1	5	-	14
Social work & helping services (other than clinical social work)		171	47	3	6	-	4	11	6	94
International public service (other than diplomatic service)		34	-	2	-	-	-	-	-	32
Other		3	-	1	-	-	-	-	-	2
SOCIAL SCIENCES	Total	292	55	14	7	3	12	17	29	155
Social sciences, general		26	14	2	-	-	-	[illegible]	3	6
Anthropology		14	-	-	-	-	1	[illegible]	5	7
Economics		26	3	4	-	-	-	[illegible]	3	15
History		54	7	-	5	1	4	[illegible]	2	30
Geography		27	6	3	1	-	2	[illegible]	-	13
Political science & government		49	4	1	-	-	1	[illegible]	5	35
Sociology		35	6	3	1	2	4	[illegible]	8	9
Criminology		50	15	1	-	-	-	1	-	33
Other		11	-	-	-	-	-	1	3	7
THEOLOGY	Total	9	4	5	-	-	-	-	-	-
Theological professions, general		3	1	2	-	-	-	-	-	-
Religious music		6	3	3	-	-	-	-	-	-
INTERDISCIPLINARY STUDIES	Total	39	11	4	2	-	-	3	-	19
Biological & physical science		1	1	-	-	-	-	-	-	-
Other (Professional growth)		5	5	-	-	-	-	-	-	-
Other		33	5	4	2	-	-	3	-	19

Table 31,1

Employment Status by Degree Field for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
BIOLOGICAL SCIENCES	Total	54	16	5	3	-	2	2	3	23
Biology, general		52	15	4	3	-	2	2	3	23
Microbiology		1	1	-	-	-	-	-	-	-
Ecology		1	-	1	-	-	-	-	-	-
BUSINESS & MANAGEMENT	Total	36	31	9	6	1	1	1	6	31
Business and commerce, general		41	16	2	3	-	-	-	1	19
Accounting		1	1	-	-	-	-	-	-	-
Banking and finance		1	1	-	-	-	-	-	-	-
Business management & admnr.		41	13	7	3	1	-	1	4	12
Marketing and purchasing		2	-	-	-	-	1	-	1	-
COMMUNICATIONS	Total	46	13	7	4	1	1	2	3	15
Communications, general		25	7	3	4	1	1	1	2	6
Communication media (use of videotape, films, etc., oriented specifically toward radio/television		1	1	-	-	-	-	-	-	-
Other (Inst. & Org.)		16	5	4	-	-	-	-	-	7
Other (Pub. aff.)		4	-	-	-	-	-	1	1	2
EDUCATION	Total	1,648	840	103	60	15	26	69	26	509
Education, general		64	41	5	2	1	3	2	-	10
Elementary education, gen.		343	191	9	5	-	4	9	1	124
English education		44	23	1	1	-	1	2	1	15
Home economics education		21	14	1	5	-	-	1	-	-
Spanish		5	4	-	-	-	-	-	-	1
All other foreign language education		4	2	1	-	-	-	-	-	1
Biology education		3	2	-	-	-	-	-	-	1
Physics education		8	4	-	-	-	-	-	-	4
Social studies education		37	18	4	3	-	-	-	1	11
Adult & continuing education		16	-	1	1	-	-	-	-	14
Special education, gen.		40	22	8	-	-	-	-	2	8
Administration of special education		36	22	-	-	-	1	-	-	13
Education of the mentally retarded		74	36	6	-	1	-	1	-	30
Education of the deaf		8	4	1	-	1	-	1	-	1
Speech correction		96	45	14	4	-	-	10	1	22
Education of the emotionally disturbed		92	66	3	3	-	1	8	-	11
Special learning disabilities		5	1	-	-	-	-	-	-	4
Education of the physically handicapped		4	4	-	-	-	-	-	-	-
Educational psychology (include learning theory)		22	10	1	2	-	-	1	7	1
Pre-elementary education (kindergarten)		15	6	2	-	-	-	1	-	6
Student personnel (counseling and guidance)		275	102	16	27	8	6	13	6	97
Educational administration		6	3	-	-	-	-	-	-	3
Reading education (methodology and theory)		233	121	14	4	3	7	12	3	69
Art education (methodology and theory)		7	4	1	-	-	1	1	-	-
Music education (methodology and theory)		27	16	5	-	-	-	3	-	3
Mathematics education (methodology and theory)		19	15	-	-	-	1	1	1	1
Science education (method. & theory)		8	3	1	-	-	-	-	-	4
Physical education		45	11	3	-	-	1	1	-	29
Business, commerce and distributive education		36	25	2	1	-	-	1	3	4
Industrial arts, vocational & tech. education)		35	22	3	2	1	-	-	-	7
Other (School psychology)		3	2	1	-	-	-	-	-	-
Other (Lrn. res.)		17	1	-	-	-	-	1	-	15

Table 31.1

Employment Status by Degree Field for Master's Degree Recipients for State-Owned Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
FINE AND APPLIED ARTS	Total	24	10	1	-	-	-	-	1	12
Art (painting, drawing, sculpture)		16	10	1	-	-	-	-	-	5
Music (performing, composition, theory)		8	-	-	-	-	-	-	1	7
FOREIGN LANGUAGES	Total	15	6	1	1	1	4	-	-	2
French		5	1	1	1	-	1	-	-	1
German		2	1	-	-	-	1	-	-	-
Spanish		8	4	-	-	1	2	-	-	1
HEALTH PROFESSIONS	Total	23	8	3	-	5	-	1	-	6
Hospital and health care administration		8	3	1	-	4	-	-	-	-
Speech pathology & audio.		11	3	2	-	1	-	-	-	5
Clinical social work (med. and psychiatric & specialized rehab. services)		4	2	-	-	-	-	1	-	1
LETTERS										
English, general		41	7	3	1	4	3	2	1	20
LIBRARY SCIENCE	Total	50	17	4	4	2	4	6	1	12
Library science, general		31	7	3	3	1	4	4	1	8
Other (Ed. related)		19	10	1	1	1	-	2	-	4
MATHEMATICS										
Mathematics, general		44	14	6	2	-	-	2	1	19
PHYSICAL SCIENCES	Total	21	8	2	1	-	-	-	1	9
Physical sciences, gen.		6	2	1	-	-	-	-	1	2
Physics, general (exclude biophysics)		2	-	-	-	-	-	-	-	2
Chemistry, general (exclude biochemistry)		4	-	-	1	-	-	-	-	3
Earth sciences, general		9	6	1	-	-	-	-	-	2
PSYCHOLOGY	Total	53	23	3	3	2	2	2	5	13
Psychology, general		41	19	-	3	2	2	-	5	10
Clinical psychology		9	3	1	-	-	-	2	-	3
Other (Community)		3	1	2	-	-	-	-	-	-
PUBLIC AFFAIRS AND SERVICES	Total	104	14	31	5	7	-	6	1	40
Public administration		78	8	30	2	7	-	5	-	26
Social work and helping services (other than clinical social work)		26	6	1	3	-	-	1	1	14
SOCIAL SCIENCES	Total	117	28	2	5	-	2	5	1	74
Social sciences, general		8	2	-	-	-	-	-	1	5
History		25	4	-	4	-	2	3	-	12
Geography		12	4	1	1	-	-	1	-	5
Political science and govt.		21	3	-	-	-	-	-	-	18
Sociology		1	-	-	-	-	-	-	-	1
Criminology		50	15	1	-	-	-	1	-	33
INTERDISCIPLINARY STUDIES	Total	6	6	-	-	-	-	-	-	-
Biological & physical sci.		1	1	-	-	-	-	-	-	-
Other (Prof. growth)		5	5	-	-	-	-	-	-	-

Table 31.2

Employment Status by Degree Field for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
AGRICULTURE AND NATURAL RESOURCES	Total	49	5	3	-	1	1	2	11	26
Agronomy (field crops, and crop management)		6	-	1	-	-	1	1	2	1
Animal science (husbandry)		7	-	-	-	-	-	-	1	6
Dairy science (husbandry)		5	1	-	-	-	-	-	2	2
Fish, game and wildlife mgt.		8	1	-	-	1	-	-	1	5
Horticulture (fruit and vegetable production)		6	2	-	-	-	-	1	2	1
Agricultural economics		6	1	-	-	-	-	-	1	4
Food science & technology		8	-	2	-	-	-	-	1	5
Natural resources management		3	-	-	-	-	-	-	1	2
ARCHITECTURE & ENVIRONMENTAL DESIGN	Total	40	10	6	1	1	-	1	1	20
Architecture		6	1	-	-	-	-	-	-	5
City, community and regional planning		34	9	6	1	1	-	1	1	15
AREA STUDIES										
American studies		12	-	-	2	-	-	3	1	6
BIOLOGICAL SCIENCES	Total	83	9	10	2	1	1	5	18	37
Biology, general		13	1	1	-	-	-	2	4	5
Plant pharmacology		13	-	5	-	-	-	1	1	6
Zoology, general		2	1	-	1	-	-	-	-	-
Pathology, human & animal		2	-	-	-	-	-	-	-	2
Pharmacology, human and animal		2	1	-	-	-	-	-	-	1
Physiology, human & animal		16	1	1	1	-	1	-	7	5
Microbiology		5	-	1	-	-	-	-	2	2
Anatomy		1	-	-	-	-	-	-	-	1
Biochemistry		7	2	-	-	1	-	1	-	3
Biophysics		3	-	-	-	-	-	-	-	3
Entomology		6	-	1	-	-	-	1	2	2
Genetics		2	-	-	-	-	-	-	1	1
Biometrics & biostatistics		2	2	-	-	-	-	-	-	-
Ecology		8	1	1	-	-	-	-	1	5
Other (Pharmacognosy)		1	-	-	-	-	-	-	-	1
BUSINESS AND MANAGEMENT	Total	473	128	43	20	5	5	9	18	245
Accounting		13	7	1	3	-	1	-	1	-
Banking and finance		13	7	-	3	1	-	1	1	-
Business management and administration		425	100	39	12	3	3	8	15	245
Operations research		1	1	-	-	-	-	-	-	-
Marketing and purchasing		10	7	1	1	-	1	-	-	-
Insurance		2	1	-	1	-	-	-	-	-
International business		1	-	-	-	1	-	-	-	-
Labor & industrial relations		4	4	-	-	-	-	-	-	-
Business economics		3	-	2	-	-	-	-	1	-
Other		1	1	-	-	-	-	-	-	-
COMMUNICATIONS	Total	23	2	5	-	2	-	2	-	12
Journalism (printed media)		22	1	5	-	2	-	2	-	12
Radio/television		1	1	-	-	-	-	-	-	-
COMPUTER AND INFORMATION SCIENCES	Total	52	7	5	1	-	-	-	3	36
Computer and information sciences, general		44	6	5	1	-	-	-	3	29
Information sciences and systems		8	1	-	-	-	-	-	-	7

Table 31.2

Employment Status by Degree Field for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
EDUCATION	Total	1,283	509	72	58	6	48	50	107	433
Education, general		66	55	1	1	1	1	-	7	-
Elementary education, gen.		207	105	[illegible]	11	-	7	7	17	54
Secondary education, gen.		65	19	1	2	-	2	1	4	36
Home economics education		3	1	-	-	-	1	-	1	-
Junior high school education		3	1	-	-	-	-	-	-	2
Higher education, general		11	3	-	-	1	1	1	[illegible]	4
Special education, general		92	52	8	7	1	1	[illegible]	-	20
Education of the mentally retarded		26	[illegible]	[illegible]	-	-	-	[illegible]	-	14
Speech correction		31	9	9	1	-	-	2	-	10
Social foundations (history & philosophy of education)		9	1	-	1	-	-	-	-	7
Educational psychology (include learning theory)		41	14	3	6	-	2	2	9	5
Student personnel (counseling and guidance)		210	50	15	6	1	11	11	7	109
Educational administration		50	12	4	1	-	1	-	9	23
Educational supervision		11	4	-	-	-	-	-	-	7
Curriculum and instruction		64	20	4	3	-	-	4	1	32
Reading education (methodology and theory)		104	42	3	6	-	9	5	7	32
Art education (methodology and theory)		25	13	-	-	-	3	-	1	8
Music education (methodology and theory)		22	11	2	2	-	-	-	1	6
Mathematics education (methodology and theory)		8	5	-	1	-	-	-	2	-
Science education (methodology and theory)		4	2	-	-	-	-	1	1	-
Physical education		32	5	4	1	1	-	2	8	11
Health education (include family life education)		4	1	1	1	-	-	-	-	1
Business, commerce and distributive education		48	13	1	2	-	1	3	5	23
Industrial arts, vocational & tech. education		52	21	2	4	-	-	1	9	15
Social studies		1	-	1	-	-	-	-	-	-
Pre-elementary education		13	7	-	-	-	2	2	2	-
Other (School psychology)		7	2	-	-	-	1	1	3	-
Other (International media)		26	9	2	1	[illegible]	3	3	7	-
Other (Urban education)		4	2	1	-	-	-	-	1	-
Other (HPER)		14	7	1	-	-	1	1	4	-
Other		30	13	1	1	-	1	-	-	14
ENGINEERING	Total	331	61	37	3	5	-	-	20	205
Engineering, general		1	-	-	-	-	-	-	-	1
Aerospace, aeronautical & astronautical engineering		6	-	1	1	-	-	-	-	4
Agricultural engineering		5	1	1	-	-	-	-	1	2
Architectural engineering		4	-	-	-	-	-	-	-	4
Bioengineering and biomedical engineering		3	-	1	-	1	-	-	-	1
Chemical engineering (include petroleum refining)		29	2	2	-	-	-	-	3	22
Petroleum engineering (exclude petroleum refining)		7	1	1	-	-	-	-	1	4
Civil, construction & transportation engineering		41	12	5	-	1	-	-	-	23
Electrical, electronics & communications engineering		37	8	8	-	1	-	-	3	17
Mechanical engineering		26	3	2	-	-	-	-	5	16
Industrial & management eng.		46	7	[illegible]	1	1	-	-	5	30
Metallurgical engineering		6	-	-	-	-	-	-	-	6
Materials engineering		1	-	-	-	-	-	-	-	1
Ceramic engineering		4	1	-	-	-	-	-	-	3
Mining & mineral eng.		16	4	3	-	-	-	-	2	7
Nuclear engineering		12	-	2	-	-	-	-	-	10
Engineering mechanics		7	-	1	-	-	-	-	-	6
Environmental & sanitary eng.		3	1	1	-	-	-	-	-	1
Engineering tech. (baccalaureate & higher programs)		4	1	-	-	-	-	-	-	3
Other		73	20	7	1	1	-	-	-	44

Table 31.2

Employment Status by Degree Field for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977 (continued)

nGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
FINE AND APPLIED ARTS	Total	101	12	5	7	-	14	4	3	56
Art (painting, drawing, sculpture)		11	-	2	2	-	1	2	-	4
Art history and appreciation		7	1	-	-	-	-	-	-	6
Music (performing, composition, theory)		15	4	-	-	-	7	-	1	3
Music (liberal arts program)		3	1	-	-	-	-	-	1	1
Music history & appreciation (musicology)		3	1	-	1	-	1	-	-	-
Dramatic arts		43	4	2	2	-	-	2	1	32
Dance		14	-	1	1	-	2	-	-	10
Applied design (ceramics, weaving, textile design, fashion design, jewelry, metalsmithing, interior decoration, commercial art)		2	1	-	-	-	1	-	-	-
Photography		1	-	-	-	-	1	-	-	-
Other (Opera)		1	-	-	-	-	1	-	-	-
Other (Print Making)		1	-	-	1	-	-	-	-	-
FOREIGN LANGUAGES	Total	45	1	3	-	-	-	3	10	28
French		11	-	1	-	-	-	1	3	6
German		12	1	1	-	-	-	1	2	7
Italian		1	-	-	-	-	-	-	-	1
Spanish		7	-	1	-	-	-	-	3	3
Slavic languages (other than Russian)		2	-	-	-	-	-	1	-	1
Other		12	-	-	-	-	-	-	2	10
HEALTH PROFESSIONS	Total	272	48	16	7	-	8	13	10	170
Hospital and health care administration		7	2	-	3	-	-	1	1	-
Nursing (baccalaureate and higher programs)		83	19	7	-	-	3	2	2	50
Dental specialties (work beyond first-prof. degree, D.D.S. or D.M.D.)		11	-	-	-	-	1	-	1	9
Pharmacy		7	2	1	1	-	-	-	1	2
Public health		126	16	8	1	-	-	6	3	92
Speech pathology & audio.		2	-	-	-	-	1	1	-	-
Medical lab. technologies (bacc. & higher programs)		2	-	-	-	-	1	-	1	-
Other		34	9	-	2	-	2	3	1	17
HOME ECONOMICS	Total	39	1	3	-	-	-	1	10	24
Family relations & child development		25	-	1	-	-	-	-	8	16
Foods and nutrition (include dietetics)		14	1	2	-	-	-	1	2	8
LETTERS	Total	120	14	2	8	-	9	3	18	66
English, general		39	7	1	4	-	2	1	4	20
Comparative literature		4	-	1	-	-	-	-	-	3
Classics		4	-	-	-	-	-	-	1	3
Linguistics (include phonetics, semantics & philology)		15	-	-	-	-	1	-	2	12
Speech, debate & forensic science (rhetoric & public address)		24	6	-	4	-	4	1	1	8
Philosophy		23	-	-	-	-	-	-	6	17
Religious studies (exclude theological professions)		7	-	-	-	-	2	1	3	1
Other		4	1	-	-	-	-	-	1	2
MATHEMATICS	Total	56	7	3	2	1	1	2	5	35
Mathematics, general		45	6	2	2	1	1	2	3	28
Statistics, mathematical and theoretical		11	1	1	-	-	-	-	2	7

Table 31.2

Employment Status by Degree Field for Master's Degree Recipients for State-Related Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
PHYSICAL SCIENCES	Total	110	13	17	3	3	1	6	6	61
Physics, general (exclude biophysics)		21	-	2	-	-	-	2	2	15
Chemistry, general (exclude biochemistry)		21	4	1	1	-	-	1	-	14
Pharmaceutical chemistry		5	-	-	1	-	1	1	2	-
Astronomy		2	-	-	-	-	-	-	-	2
Atmospheric sciences & meteorology		22	3	7	-	1	-	1	1	9
Geology		13	1	2	1	-	-	-	1	8
Geochemistry		3	-	1	-	-	-	-	-	2
Geophysics and seismology		6	1	2	-	-	-	-	-	3
Earth sciences, general		3	2	-	-	-	-	-	-	1
Metallurgy		3	-	-	-	-	-	-	-	3
Other		11	2	2	-	2	-	1	-	4
PSYCHOLOGY	Total	62	9	1	2	1	3	4	16	26
Psychology, general		41	3	-	2	1	1	2	13	19
Clinical psychology		2	-	-	-	-	1	-	1	-
Psychology for counseling		6	1	1	-	-	-	2	2	-
Social psychology		8	3	-	-	-	1	-	-	4
Other		5	2	-	-	-	-	-	-	3
PUBLIC AFFAIRS AND SERVICES	Total	434	80	26	12	2	6	26	10	272
Community services, general		3	1	2	-	-	-	-	-	-
Public administration		223	37	14	9	2	1	11	5	144
Parks and recreation management		26	1	5	-	-	1	5	-	14
Social work and helping services (other than clinical social work)		145	41	2	3	-	4	10	5	80
International public service (other than diplomatic service)		34	-	2	-	-	-	-	-	32
Other		3	-	1	-	-	-	-	-	2
SOCIAL SCIENCES	Total	150	14	10	2	2	10	9	26	77
Anthropology		14	-	-	-	-	1	1	5	7
Economics		26	3	4	-	-	-	1	3	15
History		27	3	-	1	1	2	2	2	16
Geography		15	2	2	-	-	2	1	-	8
Political science and government		25	1	1	-	-	1	1	5	16
Sociology		32	5	3	1	1	4	2	8	8
Other		11	-	-	-	-	-	1	3	7
INTERDISCIPLINARY STUDIES										
Other		33	5	4	2	-	-	3	-	19

Table 31.3

Employment Status by Degree Field for Master's Degree Recipients for State-Aided Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
BIOLOGICAL SCIENCES	Total	15	10	3	-	-	-	-	1	-
Physiology		2	-	-	-	1	-	-	1	-
Microbiology		13	10	3	-	-	-	-	-	-

Table 31.4

Employment Status by Degree Field for Master's Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
ARCHITECTURE AND ENVIRONMENTAL DESIGN										
Architecture		11	1	3	1	-	-	-	1	5
BIOLOGICAL SCIENCES	Total	10	1	-	-	-	-	2	4	3
Biology, general		3	1	-	-	-	-	1	-	1
Biochemistry		7	-	-	-	-	-	1	4	2
BUSINESS AND MANAGEMENT	Total	366	127	104	4	2	-	19	9	101
Accounting		39	11	9	-	-	-	4	-	15
Banking and finance		40	7	9	-	-	-	6	-	18
Business management and administration		189	94	75	-	-	-	4	3	13
Operations research		1	-	-	-	-	-	-	1	-
Marketing and purchasing		37	9	7	-	-	-	4	3	14
Labor and industrial relations		55	6	3	4	2	-	1	-	39
Business economics		5	-	1	-	-	-	-	2	2
COMPUTER & INFORMATION SCIENCES	Total	11	3	7	-	-	-	-	1	-
Computer & information sciences, general		9	3	6	-	-	-	-	-	-
Systems analysis		2	-	1	-	-	-	-	1	-
EDUCATION	Total	206	114	32	4	-	1	3	16	36
Education, general		52	33	17	2	-	-	-	-	-
Elementary education, general		16	5	-	-	-	-	1	10	-
English education		10	2	1	-	-	-	-	1	6
Home economics education		2	1	-	-	-	-	-	-	1
Social studies education		11	7	1	-	-	-	-	1	2
Special education, general		2	1	-	-	-	-	-	-	1
Administration of special education		4	3	1	-	-	-	-	-	-
Educational psychology		4	3	1	-	-	-	-	-	-
Student personnel (counseling, guidance)		59	37	5	2	-	-	2	3	10
Educational administration		13	7	-	-	-	-	-	-	6
Reading education (method., theory)		9	1	1	-	-	1	-	-	6
Art education (method., theory)		5	2	-	-	-	-	-	-	3
Music education		11	7	4	-	-	-	-	-	-
Science education		7	4	1	-	-	-	-	1	1
Business, commerce & distributive education		1	1	-	-	-	-	-	-	-
ENGINEERING	Total	143	29	56	-	-	-	5	30	23
Engineering		15	7	8	-	-	-	-	-	-
Bioengineering & biomedical engineering		6	2	2	-	-	-	-	2	-
Chemical engineering, including petroleum refining		29	7	7	-	-	-	4	7	4
Civil, construction & transportation engineering		21	4	13	-	-	-	-	3	1
Electrical, electronics & communications engineering		32	4	13	-	-	-	-	10	5
Mechanical engineering		11	1	1	-	-	-	-	4	5
Industrial & management engineering		8	4	1	-	-	-	1	-	2
Metallurgical engineering		13	-	4	-	-	-	-	4	5
Engineering physics		1	-	-	-	-	-	-	-	1
Nuclear engineering		7	-	7	-	-	-	-	-	-
FINE AND APPLIED ARTS	Total	32	8	7	1	-	-	3	-	13
Art (painting, drawing, sculpture)		3	-	-	-	-	-	1	-	2
Music (performing, composition, theory)		8	1	1	1	-	-	1	-	4
Dramatic arts		21	7	6	-	-	-	1	-	7

Table 31.4

Employment Status by Degree Field for Master's Degree Recipients for Private Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total	Employed in Field Prepared		Employed in Other Field		Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
			In Pa.	Outside Pa.	In Pa.	Outside Pa.				
FOREIGN LANGUAGES										
Spanish		2	-	-	-	2	-	-	-	-
HEALTH PROFESSIONS										
Clinical social work (medical & psychiatric & specialized rehab. services)		13	5	-	-	-	-	1	1	6
LAW										
Law, general		20	17	1	-	2	-	-	-	-
LETTERS										
English, general		10	6	-	-	-	1	1	-	2
LIBRARY SCIENCE										
Library science, general		1	1	-	-	-	-	-	-	-
MATHEMATICS	Total	17	3	6	-	-	-	1	3	4
Mathematics, general		12	3	3	-	-	-	1	2	3
Statistics		2	-	1	-	-	-	-	-	1
Applied mathematics		3	-	2	-	-	-	-	1	-
PHYSICAL SCIENCES	Total	26	5	3	-	-	-	1	10	7
Physics, general		12	4	-	-	-	-	-	8	-
Chemistry, general		14	1	3	-	-	-	1	2	7
PSYCHOLOGY	Total	6	2	1	1	-	-	-	1	1
Psychology, general		2	-	-	-	-	-	-	1	1
Clinical psychology		4	2	1	1	-	-	-	-	-
PUBLIC AFFAIRS & SERVICES										
Public administration		31	9	19	-	-	-	-	-	3
SOCIAL SCIENCES	Total	25	13	2	-	1	-	3	2	4
Social sciences, general		18	12	2	-	-	-	1	2	1
History		2	-	-	-	-	-	-	-	2
Political science & government		3	-	-	-	-	-	2	-	1
Sociology		2	1	-	-	1	-	-	-	-
THEOLOGY	Total	9	4	5	-	-	-	-	-	-
Theological professions, general		3	1	2	-	-	-	-	-	-
Religious education		6	3	3	-	-	-	-	-	-

Table 32.0

Employment Status by Degree Field for Doctoral
Degree Recipients for All Institutions in Pennsylvania, 1977

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
AGRICULTURE AND NATURAL RESOURCES	Total	21	1	8	-	-	-	1	-	11
Agronomy (field crops, and crop management		4	-	2	-	-	-	-	-	2
Animal science (husbandry)		2	-	1	-	-	-	1	-	-
Horticulture (fruit and vegetable production)		1	-	1	-	-	-	-	-	-
Agricultural economics		5	1	1	-	-	-	-	-	3
Food science & technology		5	-	2	-	-	-	-	-	3
Natural resources management		4	-	1	-	-	-	-	-	3
BIOLOGICAL SCIENCES	Total	68	14	22	3	-	2	2	3	22
Biology, general		7	2	-	1	-	-	-	1	3
Botany, general		1	1	-	-	-	-	-	-	-
Plant pathology		1	-	1	-	-	-	-	-	-
Zoology, general		1	-	-	-	-	-	1	-	-
Pharmacology, human and animal		7	2	3	-	-	-	-	1	1
Physiology, human and animal		6	2	2	-	-	-	-	-	2
Microbiology		7	-	2	-	-	-	-	-	5
Anatomy		3	-	2	-	-	-	-	-	1
Biochemistry		17	5	6	-	-	-	1	1	4
Biophysics		3	-	1	-	-	-	-	-	2
Biometrics & biostatistics		2	1	-	1	-	-	-	-	-
Entomology		5	1	2	-	-	1	-	-	1
Genetics		2	-	1	-	-	-	-	-	1
Other (Biophysics/Microbiology)		4	-	-	1	-	1	-	-	2
Other (Physics)		2	-	2	-	-	-	-	-	-
BUSINESS & MANAGEMENT	Total	29	2	11	-	1	-	-	-	15
Business management & administration		27	2	9	-	1	-	-	-	15
Business economics		2	-	2	-	-	-	-	-	-
COMPUTER AND INFORMATION SCIENCES	Total	12	2	7	-	-	-	-	-	3
Computer and information sciences, general		10	1	7	-	-	-	-	-	2
Information sciences and systems		2	1	-	-	-	-	-	-	1
EDUCATION	Total	287	103	23	24	1	5	4	1	126
Elementary education, gen.		15	4	-	2	-	-	-	1	8
Secondary education, gen.		6	2	-	-	1	-	-	-	3
English education		2	2	-	-	-	-	-	-	-
Social studies education		5	2	3	-	-	-	-	-	-
Higher education, general		31	8	2	1	-	1	1	-	18
Education of the mentally retarded		3	2	-	-	-	-	-	-	1
Social foundations (history & philosophy of ed.)		5	-	1	-	-	-	-	-	4
Educational psychology (include learning theory)		27	12	3	3	-	1	-	-	8
Educational statistics & res.		8	3	1	-	-	-	-	-	4
Special education		4	4	-	-	-	-	-	-	-
Educational testing, evaluation & measurement)		2	2	-	-	-	-	-	-	-
Student personnel (counseling and guidance)		33	9	3	3	-	1	-	-	17
Educational administration		42	20	-	5	-	-	-	-	17
Educational supervision		6	3	-	-	-	-	-	-	3
Curriculum and instruction		23	8	5	-	-	-	1	-	9
Reading education (method. & theory)		8	4	-	-	-	1	-	-	3
Art education (method. & theory)		9	-	1	-	-	-	1	-	7
Music education (method. & theory)		2	1	-	-	-	-	-	-	1
Math. education (method. & theory)		1	1	-	-	-	-	-	-	-
Science education (method. & theory)		1	1	-	-	-	-	-	-	-
Physical education		5	1	1	-	-	-	1	-	2
Health ed. (include family life ed.)		2	1	-	1	-	-	-	-	-
Business, commerce & distributive ed.		6	4	-	2	-	-	-	-	-
Industrial arts, voc. & tech. ed.)		14	5	2	5	-	-	-	-	2
Other (Early childhood ed.)		2	1	-	1	-	-	-	-	-
Other (Instructional media)		2	1	-	-	-	1	-	-	-
Other (Urban education)		1	1	-	-	-	-	-	-	-
Other		22	1	1	1	-	-	-	-	19

Table 32.0

Employment Status by Degree Field for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1977
(continued)

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others[1]
ENGINEERING	Total	84	20	24	-	-	-	2	-	38
Engineering, general		1	-	1	-	-	-	-	-	-
Aerospace, aeronautical & astronautical engineering		1	-	1	-	-	-	-	-	-
Bioengineering and biomedical engineering		2	2	-	-	-	-	-	-	-
Chemical engineering (include petroleum refining)		18	2	9	-	-	-	-	-	7
Petroleum engineering (exclude petroleum refining)		1	-	-	-	-	-	-	-	1
Civil, construction & transportation engineering		5	2	-	-	-	-	-	-	3
Electrical, electronics & communications engineering		13	3	5	-	-	-	-	-	5
Mechanical engineering		11	4	-	-	-	-	-	-	7
Industrial & management eng.		4	1	1	-	-	-	-	-	2
Metallurgical engineering		7	1	4	-	-	-	1	-	1
Materials engineering		2	-	-	-	-	-	-	-	2
Ceramic engineering		3	2	1	-	-	-	-	-	-
Mining & mineral eng.		3	-	-	-	-	-	-	-	3
Nuclear engineering		6	2	2	-	-	-	1	-	1
Engineering mechanics		3	1	-	-	-	-	-	-	2
Engineering tech. (baccalaureate & higher programs)		3	-	-	-	-	-	-	-	3
Other		1	-	-	-	-	-	-	-	1
FINE AND APPLIED ARTS	Total	26	7	4	-	-	1	2	-	12
Art history and appreciation		6	3	3	-	-	-	-	-	-
Music (performing, composition, theory)		2	1	-	-	-	-	1	-	-
Music (liberal arts program)		4	-	-	-	-	-	-	-	4
Dramatic arts		14	3	1	-	-	1	1	-	8
FOREIGN LANGUAGES	Total	22	6	2	1	-	-	1	-	12
French		10	3	1	-	-	-	-	-	6
German		4	2	1	-	-	-	1	-	-
Spanish		3	1	-	1	-	-	-	-	1
Slavic languages (Other than Russian)		1	-	-	-	-	-	-	-	1
Other (Hispanic)		4	-	-	-	-	-	-	-	4
HEALTH PROFFSSIONS	Total	20	4	2	-	-	1	-	-	13
Nursing (baccalaureate and higher programs)		2	1	-	-	-	-	-	-	1
Dental specialties (work beyond first-professional degree, D.D.S. or D.M.D.)		1	1	-	-	-	-	-	-	-
Pharmacy		2	-	-	-	-	-	-	-	2
Public health		12	2	1	-	-	1	-	-	8
Other		3	-	1	-	-	-	-	-	2
HOME ECONOMICS	Total	9	2	1	-	-	-	-	-	6
Clothing and textiles		1	-	-	-	-	-	-	-	1
Family relations & child dev.		7	1	1	-	-	-	-	-	5
Foods and nutrition (include dietetics)		1	1	-	-	-	-	-	-	-
LETTERS	Total	55	9	6	4	1	3	1	-	31
English, general		24	5	2	1	1	2	-	-	13
Literature, English		2	2	-	-	-	-	-	-	-
Linguistics (include phonetics, semantics & philology)		2	1	1	-	-	-	-	-	-
Speech, debate & forensic sci. (rhetoric & public address)		10	-	2	1	-	-	-	-	7
Philosophy		16	1	1	1	-	1	1	-	11
Religious studies (exclude theological professions)		1	-	-	1	-	-	-	-	-
LIBRARY SCIENCE										
Library science, gen ral		10	2	-	-	-	-	-	-	8

[1]The "all others" cacegory represents those not responding to the survey which should represent the difference between the number of respondents and the number of graduates.

Table 32.0

Employment Status by Degree Field for Doctoral Degree Recipients for All Institutions in Pennsylvania, 1977 (continued)

HEGIS Degree Field		Total Reported	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
MATHEMATICS	Total	24	6	9	-	-	-	-	1	8
Mathematics, general		18	4	7	-	-	-	-	1	6
Statistics, mathematical and theoretical		6	2	2	-	-	-	-	-	2
PHYSICAL SCIENCES	Total	122	21	28	2	-	2	1	1	67
Physics, general (exclude biophysics)		39	8	7	-	-	1	1	-	22
Chemistry, general (exclude biochemistry)		43	5	9	2	-	-	-	1	26
Organic chemistry		1	1	-	-	-	-	-	-	-
Astronomy		2	-	1	-	-	-	-	-	1
Atmospheric sciences & meteorology		6	1	2	-	-	-	-	-	3
Geology		6	-	4	-	-	1	-	-	1
Geochemistry		3	-	-	-	-	-	-	-	3
Geophysics and seismology		1	-	1	-	-	-	-	-	-
Earth sciences, general		7	2	2	-	-	-	-	-	3
Paleontology		1	-	1	-	-	-	-	-	-
Metallurgy		2	2	-	-	-	-	-	-	-
Other (Earth & Planetary sci.)		11	2	1	-	-	-	-	-	8
PSYCHOLOGY	Total	39	8	8	-	1	-	3	1	18
Psychology, general		31	7	7	-	1	-	1	1	14
Experimental psychology (animal and human)		4	1	1	-	-	-	2	-	-
Other		4	-	-	-	-		-	-	4
PUBLIC AFFAIRS AND SERVICES	Total	38	2	6	-	-	1	-	-	29
Community services, general		3	-	1	-	-	-	-	-	2
Public administration		7	-	4	-	-	-	-	-	3
Social work & helping services (other than clinical social work)		7	1	-	-	-	1	-	-	5
Other		21	1	1	-	-	-	-	-	19
SOCIAL SCIENCES	Total	107	10	28	4	2	3	4	-	56
Anthropology		26	1	6	1	1	1	-	-	16
Archaeology		2	1	1	-	-	-	-	-	-
Economics		29	2	9	1	-	-	-	-	17
History		14	-	2	-	1	1	3	-	7
Geography		10	4	2	-	-	-	-	-	4
Political science and govt.		9	1	1	-	-	-	1	-	6
Sociology		14	1	7	1	-	1	-	-	4
Other		3	-	-	1	-	-	-	-	2
THEOLOGY										
Religious education		1	1	-	-	-	-	-	-	-
INTERDISCIPLINARY STUDIES										
Other		1	1	-	-	-	-	-	-	-

Table 33.0

Employment Status by Degree Field for Associate Degree Graduates for All Institutions, 1977

HEGIS Degree Field		Total	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others[1]
DATA PROCESSING TECHNOLOGIES	Total	442	227	46	38	8	4	10	33	76
Data processing, technologies, general		187	84	5	19	3	4	7	20	45
Key punch operator and other input preparation tech.		20	16	-	3	-	-	1	-	-
Computer programmer technologies		199	104	39	16	5	-	2	9	24
Computer operator and peripheral equipment operation technologies		30	19	-	-	-	-	-	4	7
Data processing equipment maintenance tech.		6	4	2	-	-	-	-	-	-
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES	Total	1,856	1,087	49	47	2	58	80	102	431
Health services assistant technologies, general		12	1	-	3	-	1	2	3	2
Dental assistant tech.		51	31	1	3	-	-	6	5	5
Dental hygiene tech.		25	19	-	1	-	1	2	-	2
Medical or biological laboratory assistant technologies		106	69	3	4	-	2	5	2	21
Radiologic technologies (X-ray, etc.)		39	20	1	2	-	-	4	2	10
Nursing, R.N. (less than 4-year program)		657	387	32	5	2	24	22	16	169
Nursing, practical (L.P.N. or L.V.N.--less than 4-yr. program)		416	282	5	5	-	6	6	33	79
Occupational therapy tech.		21	12	-	1	-	2	2	-	4
Surgical technologies		10	9	1	-	-	-	-	-	-
Medical record technologies		19	10	-	-	-	-	1	1	7
Medical assistant & medical office assistant tech.		225	147	4	13	-	5	12	3	41
Inhalation therapy tech.		25	10	1	-	-	-	3	1	10
Psychiatric tech. (include menta' health aide programs)		76	22	1	3	-	8	4	12	26
Physical therapy tech.		30	21	-	-	-	-	5	3	1
Other (Med. sec.)		12	7	-	-	-	-	-	2	3
Other (Child care)		22	5	-	2	-	2	-	5	8
Other (Energy med. tech.)		15	4	-	-	-	1	1	-	9
Other (Pediology)		77	20	-	4	-	6	4	13	30
Other (Dietition tech.)		14	7	-	1	-	-	1	1	4
Other (Occup. tech.)		1	1	-	-	-	-	-	-	-
Other (Cardiovascular tech.)		2	2	-	-	-	-	-	-	-
Other (Med. equip. rep.)		1	1	-	-	-	-	-	-	-
MECHANICAL AND ENGINEERING TECHNOLOGIES	Total	2,384	1,061	346	158	13	31	128	255	392
Mechanical and engineering technologies, general		256	86	19	10	2	4	16	52	77
Aeronautical and aviation technologies		130	18	74	11	6	-	2	7	12
Engineering graphics (tool & machine drafting & design)		81	48	9	11	-	1	4	4	4
Architectural drafting technologies		146	61	4	17	-	2	9	30	23
Chemical technologies (include plastics)		33	17	1	1	-	2	1	2	9
Automotive technologies		100	75	8	2	-	-	-	3	12
Diesel technologies		52	41	8	1	-	-	2	-	-
Welding technologies		45	34	4	1	-	-	-	2	4
Civil technologies (surveying photogrammetry, etc.)		137	56	11	5	-	2	9	21	33
Electronics & machine tech. (television appliance, office machine repair, etc.)		541	230	156	29	2	5	34	51	34
Electromechanical tech.		30	13	6	2	-	-	-	5	4
Industrial technologies		89	43	2	4	-	1	6	4	29
Mechanical technologies		49	35	-	8	-	1	-	2	3
Nuclear technologies		22	3	4	1	-	1	3	-	10
Construction & building technologies		249	171	17	23	1	3	8	12	14
Other (Metallurgical tech.)		6	5	-	1	-	-	-	-	-
Other (Environmental pollution control)		3	2	-	-	-	-	1	-	-
Other (AVA equip. rep.)		2	2	-	-	-	-	-	-	-
Other (Broadcast eng.)		2	2	-	-	-	-	-	-	-
Other (Ind. draft. tech.)		22	12	-	4	-	-	2	-	4
Other (Internal plan. draft.)		4	1	-	-	-	-	-	3	-
Other (Welding spec.)		27	10	-	4	-	-	2	1	10
Other (Auto diesel)		17	10	-	-	-	-	-	-	7
Other (Auto ser.)		1	-	-	-	-	-	-	-	1
Other (Auto body)		15	7	-	-	-	1	1	1	5
Other (Ind. supv.)		24	24	-	-	-	-	-	-	-
Other (Drafting)		8	1	1	2	-	2	-	1	1
Other (Occup. studies)		1	1	-	-	-	-	-	-	-
Other		282	53	22	21	2	6	28	54	96

[1]The "all others" category represents those not responding to the survey which should represent the difference between the number of respondents and the number of graduates.

Table 33.0

Employment Status by Degree Field for Associate Degree Graduates for All Institutions, 1977
(continued)

HEGIS Degree Field		Total	Employed in Field Prepared In Pa.	Employed in Field Prepared Outside Pa.	Employed in Other Field In Pa.	Employed in Other Field Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
NATURAL SCIENCE TECHNOLOGIES	Total	312	104	19	55	3	14	27	40	50
Natural science technologies, general		10	1	-	2	-	-	1	5	-
Agriculture technologies (include horticulture)		88	44	4	4	2	7	11	10	6
Forestry and wildlife technologies (include fisheries)		144	30	12	39	1	7	14	11	30
Food service technologies		39	19	1	5	-	-	-	7	7
Laboratory technologies, general		5	1	1	-	-	-	-	1	2
Other (Environ. studies)		24	8	1	5	-	-	1	4	5
Other (Dietetic tech.)		2	1	-	-	-	-	-	1	-
BUSINESS AND COMMERCE TECHNOLOGIES	Total	2,804	1,291	121	166	15	71	162	341	637
Business and commerce technologies, general		582	160	5	39	3	10	31	130	204
Accounting technologies		463	212	14	27	-	15	32	93	70
Banking and finance technologies		24	7	1	2	1	4	4	5	-
Marketing, distribution, purchasing, business & industrial management tech.		389	164	12	34	2	17	19	36	105
Secretarial tech. (include office machines training)		768	543	16	16	4	15	27	14	133
Personal service tech. (stewardess, cosmetologist, etc.)		17	7	-	-	-	-	1	5	4
Photography technologies		34	13	5	2	1	-	6	3	4
Communications & broadcasting tech. (radio/television, newspaper)		94	10	-	17	1	5	5	16	40
Printing & lithography technologies		32	21	5	-	-	-	-	5	1
Hotel & restaurant management technologies		75	28	2	5	-	-	4	8	28
Transportation & public utility technologies		9	5	-	2	-	-	-	-	2
Applied arts, graphic arts, & fine arts technologies		206	74	53	18	2	3	25	8	23
Other (Interior design)		41	20	7	-	-	-	5	2	7
Other (Industrial management)		3	3	-	-	-	-	-	-	-
Other (Legal service)		5	5	-	-	-	-	-	-	-
Other (Clerk typist)		2	1	1	-	-	-	-	-	-
Other (Commercial art)		21	2	-	2	-	-	2	13	2
Other (Real estate)		11	4	-	1	-	-	-	1	5
Other (Economics)		1	1	-	-	-	-	-	-	-
Other		27	11	-	1	1	2	1	2	9
PUBLIC SERVICE RELATED TECHNOLOGIES		1,050	296	19	79	1	41	37	191	386
Public service technologies, general		93	33	-	7	-	2	-	3	48
Education technologies (teacher aide & 2-yr. tchr. training prog.)		171	36	3	15	-	8	6	41	62
Library assistant tech.		6	3	1	-	-	-	-	1	1
Police, law enforcement, corrections tech.		512	140	8	43	1	15	16	83	206
Recreation & social work related technologies		103	23	1	8	-	10	3	32	26
Fire control technology		62	31	6	-	-	1	2	3	19
Public administration & management technologies		2	-	-	-	-	2	-	-	-
Other (ACS)		21	9	-	3	-	2	1	5	1
Other (Child Dev.)		27	7	-	-	-	-	2	16	2
Other (Social Work Tech.)		21	2	-	2	-	1	3	4	9
Other (Occup. Studies)		2	2	-	-	-	-	-	-	-
Other		30	10	-	1	-	-	4	3	12
ARTS AND SCIENCE TRANSFERS										
Arts & science transfers who enter four-year programs		2,340	392	22	130	17	107	76	969	627

Table 33.1

Employment Status by Degree Field for Associate Degree Recipients for Community Colleges, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
DATA PROCESSING TECHNOLOGIES	Total	220	107	8	16	3	4	4	24	54
Data processing, technologies, general		162	70	5	16	3	4	4	18	42
Computer programmer technologies		28	18	3	-	-	-	-	2	5
Computer operator and peripheral equipment operation technologies		30	19	-	-	-	-	-	4	7
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES	Total	1,709	987	45	44	2	57	74	102	398
Health services assistant technologies, general		12	1	-	3	-	1	2	3	2
Dental assistant tech.		51	31	1	3	-	-	6	5	5
Medical or biological laboratory assistant tech.		99	65	3	3	-	1	5	2	20
Radiologic technologies (X-ray, etc.)		19	13	-	1	-	-	1	2	2
Nursing, R.N. (less than 4-year program)		627	367	32	5	2	24	22	16	159
Nursing, practical (L.P.N. or L.V.N.--less than 4-yr. prog.)		405	282	5	5	-	6	6	33	68
Occupational therapy tech.		21	12	-	1	-	2	2	-	4
Surgical technologies		10	9	1	-	-	-	-	-	-
Medical record technologies		19	10	-	-	-	-	1	1	7
Medical assistant & medical office assistant tech.		147	79	1	12	-	5	9	3	38
Inhalation therapy tech.		25	10	1	-	-	-	3	1	10
Psychiatric tech. (include mental health aide programs)		76	22	1	3	-	8	4	12	26
Physical therapy tech.		30	21	-	-	-	-	5	3	1
Dental hygiene tech.		25	19	-	1	-	1	2	-	2
Other (Child care dev.)		22	5	-	2	-	2	-	5	8
Other (Energy med. tech.)		15	4	-	-	-	1	1	-	9
Other (Pediology)		77	20	-	4	-	6	4	13	30
Other (Dietetic tech.)		14	7	-	1	-	-	1	1	4
Other (Occup. study)		1	1	-	-	-	-	-	-	-
Other (Cardiovascular tech.)		2	2	-	-	-	-	-	-	-
Other (Med. secretary)		12	7	-	-	-	-	-	2	3
MECHANICAL AND ENGINEERING TECHNOLOGIES	Total	920	516	48	82	1	17	36	112	108
Mechanical & engineering technologies, general		66	32	5	2	-	-	3	14	10
Aeronautical and aviation technologies		24	10	3	3	-	-	1	3	4
Engineering graphics (tool & machine drafting & design)		58	28	8	9	-	1	4	4	4
Architectural drafting technologies		69	27	-	8	-	1	5	17	11
Chemical technologies (include plastics)		8	4	-	1	-	2	1	-	-
Automotive technologies		52	43	3	2	-	-	-	2	2
Diesel technologies		52	41	8	1	-	-	2	-	-
Welding technologies		30	25	2	1	-	-	-	1	1
Civil technologies (surveying photogrammetry, etc.)		65	32	3	5	-	2	4	14	5
Electronics & machine tech. (television appliance, office machine repair, etc.)		172	76	6	16	1	4	5	39	25
Electromechanical tech.		22	11	-	2	-	-	-	5	4
Industrial technologies		8	2	-	1	-	-	-	1	4
Mechanical technologies		29	17	-	7	-	1	-	1	3
Construction & building tech. (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heat., etc.)		172	115	9	18	-	3	8	8	11
Other (Welding spec.)		27	10	-	4	-	-	2	1	10
Other (Auto diesel)		17	10	-	-	-	-	-	-	7
Other (Auto service)		1	-	-	-	-	-	-	-	1
Other (Auto body)		15	7	-	-	-	1	1	1	5
Other(Ind. supr.)		24	24	-	-	-	-	-	-	-
Other (Drafting)		8	1	1	2	-	2	-	1	1
Other (Occup. studies)		1	1	-	-	-	-	-	-	-

Table 33.1

Employment Status by Degree Field for Associate Degree Recipients for Community Colleges, 1977
(continued)

HEGIS Degree Field	Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Unemployed	Pursuing Advanced Degree	All Others
NATURAL SCIENCE TECHNOLOGIES Total	151	66	15	24	-	-	7	25	14
Natural science technologies, general	10	1	-	2	-	-	1	6	-
Agriculture technologies (include horticulture)	22	16	3	2	-	-	1	-	-
Forestry and wildlife technologies (include fisheries)	49	20	10	9	-	-	4	6	-
Food service technologies	39	19	1	5	-	-	-	7	7
Laboratory technologies, gen.	5	1	-	1	-	-	-	1	2
Other (Environ. studies)	24	8	1	5	-	-	1	4	5
Other (Dietetic tech.)	2	1	-	-	-	-	-	1	-
BUSINESS AND COMMERCE TECHNOLOGIES Total	1,688	667	32	110	7	52	64	256	500
Business and commerce technologies, general	370	97	3	21	3	5	11	88	142
Accounting technologies	302	109	5	21	-	13	18	69	67
Banking & finance techn.	24	7	1	2	1	4	4	5	-
Marketing, distribution, purchasing, business & ind. mgt.	274	94	5	28	-	16	8	31	92
Secretarial tech. (include office machines training)	433	270	7	6	3	10	10	11	116
Personal service tech. (stewardess, cosmetologist, etc.)	17	7	-	-	-	-	1	5	4
Photography technologies	8	2	2	-	-	-	-	2	2
Communications & broadcasting tech. (radio/television, newspaper)	62	5	-	12	-	2	3	11	29
Printing & lithography technologies	32	21	5	-	-	-	-	5	1
Hotel & restaurant management technologies	59	22	2	5	-	-	3	8	19
Transportation & public utility technologies	9	5	-	2	-	-	-	-	2
Applied arts, graphic arts, & fine arts technologies (incl. adv. design)	55	12	1	10	-	2	4	7	19
Other (Ind. mgt.)	3	3	-	-	-	-	-	-	-
Other (Legal ser.)	5	5	-	-	-	-	-	-	-
Other (Clerk typ.)	2	1	1	-	-	-	-	-	-
Other (Comm. art)	21	2	-	2	-	-	2	13	2
Other (Real estate)	11	4	-	1	-	-	-	1	5
Other (Economics)	1	1	-	-	-	-	-	-	-
PUBLIC SERVICE RELATED TECHNOLOGIES Total	818	245	17	66	1	32	26	176	255
Public service tech., gen.	2	1	-	-	-	-	-	1	-
Education technologies (teacher aide and 2-yr. teacher training prog.)	171	36	3	15	-	8	6	41	62
Library assistant tech.	6	3	1	-	-	-	-	1	1
Police, law enforcement, corrections tech.	435	134	6	42	1	13	11	81	147
Recreation and social work related technologies	69	20	1	4	-	5	1	24	14
Fire control technology	62	31	6	-	-	1	2	3	19
Public administration & management technologies	2	-	-	-	-	2	-	-	-
Other (AGS)	21	9	-	3	-	2	1	5	1
Other (Child dev.)	27	7	-	-	-	-	2	16	2
Other (Social work tech.)	21	2	-	2	-	1	3	4	9
Other (Occup. studies)	2	2	-	-	-	-	-	-	-
ARTS AND SCIENCE TRANSFERS Total									
Arts and science transfers who enter four-year programs	2,076	380	21	95	12	98	69	886	515

Table 33.2

Employment Status by Degree Field for Associate Degree Recipients for Proprietary Institutions, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
DATA PROCESSING TECHNOLOGIES	Total	156	98	22	21	5	-	3	4	3
Data processing, technologies, general		23	13	-	3	-	-	2	2	3
Key punch operator and other input preparation tech.		20	16	-	3	-	-	1	-	
Computer programmer tech.		107	65	20	15	5	-	-	2	-
Data processing equipment maintenance tech.		6	4	2	-	-	-	-	-	-
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES	Total	79	69	3	1	-	-	3	-	3
Medical assistant & medical office assistant tech.		78	68	3	1	-	-	3	-	3
Other (Medical equipment repair)		1	1	-	-	-	-	-	-	-
MECHANICAL AND ENGINEERING TECHNOLOGIES	Total	732	348	245	40	8	-	33	21	37
Aeronautical and aviation technologies		103	8	71	8	6	-	1	3	6
Engineering graphics (tool & machine drafting & design)		23	20	1	2	-	-	-	-	-
Architectural drafting tech.		37	25	3	7	-	-	2	-	-
Automotive technologies		48	32	5	-	-	-	-	1	10
Welding technologies		15	9	2	-	-	-	-	1	3
Electronics & machine tech. (television appliance, office machine repair, etc.)		358	152	148	12	1	-	27	9	9
Electromechanical tech.		8	2	6	-	-	-	-	-	-
Industrial technologies		12	6	1	2	-	-	1	-	2
Mechanical technologies		18	17	-	-	-	-	-	1	-
Construction and building technologies (carpentry, electrical work, plumbing, sheetmetal, air conditioning, heating, etc.		75	55	8	5	1	-	-	3	3
Other (AVA equip. repair)		2	2	-	-	-	-	-	-	-
Other (Broadcast eng.)		2	2	-	-	-	-	-	-	-
Other (Ind. draft. tech.)		22	12	-	4	-	-	2	-	4
Other (Metallurgical tech.)		5	5	-	-	-	-	-	-	-
Other (Internal plan. draft.)		4	1	-	-	-	-	-	3	-
BUSINESS AND COMMERCE TECHNOLOGIES	Total	861	561	87	32	6	9	82	38	46
Business and commerce technologies, general		33	21	2	-	-	-	8	2	-
Accounting technologies		160	103	9	5	-	2	14	24	3
Marketing, distribution, purchasing, business & ind. man. tech.		113	70	5	6	2	1	11	5	13
Secretarial tech. (include office machines training)		332	271	9	10	1	5	16	3	17
Photography technologies		26	11	3	2	1	-	6	1	2
Communications & broadcasting tech. (radio/television, newspaper)		5	3	-	1	-	-	1	-	-
Applied arts, graphic arts & fine arts tech. (include adv. design)		151	62	52	8	2	1	21	1	4
Other (Interior design)		41	20	7	-	-	-	5	2	7

Table 33.3

Employment Status by Degree Field for Associate Degree Recipients for Four-Year Colleges and Universities, 1977

HEGIS Degree Field		Total	Employed in Field Prepared: In Pa.	Employed in Field Prepared: Outside Pa.	Employed in Other Field: In Pa.	Employed in Other Field: Outside Pa.	Employed Part-Time	Un-employed	Pursuing Advanced Degree	All Others
DATA PROCESSING TECHNOLOGIES	Total	66	22	16	1	-	-	3	5	19
Data processing, technologies, general		2	1	-	-	-	-	1	-	-
Computer programmer tech.		64	21	16	1	-	-	2	5	19
HEALTH SERVICES AND PARA-MEDICAL TECHNOLOGIES	Total	57	31	1	2	-	1	3	-	19
Medical or biological laboratory assistant tech.		7	4	-	1	-	1	-	-	1
Radiologic technologies (X-ray, etc.)		20	7	1	1	-	-	3	-	8
Nursing, R.N. (less than 4-year program)		30	20	-	-	-	-	-	-	10
MECHANICAL AND ENGINEERING TECHNOLOGIES	Total	732	197	53	36	4	14	59	122	247
Mechanical & engineering technologies, general		200	54	14	8	2	4	13	38	67
Aeronautical and aviation technologies		3	-	-	-	-	-	-	1	2
Architectural drafting technologies		40	9	1	2	-	1	2	13	12
Chemical technologies (include plastics)		25	13	1	-	-	-	-	2	9
Civil technologies (surveying photogrammetry, etc.)		72	24	8	-	-	-	5	7	28
Electronics & machine tech., television appliance, office machine repair, etc.)		11	2	2	1	-	1	2	3	-
Industrial technologies		69	35	1	1	-	1	5	3	23
Mechanical technologies		2	1	-	1	-	-	-	-	-
Nuclear technologies		22	3	4	1	-	1	3	-	10
Construction & building tech.		2	1	-	-	-	-	-	1	-
Other (Metallurgical tech.		1	-	-	1	-	-	-	-	-
Other (Environ. pollution control)		3	2	-	-	-	-	1	-	-
Other		282	53	22	21	2	6	28	54	96
NATURAL SCIENCE TECHNOLOGIES	Total	161	38	3	32	3	14	20	15	36
Agriculture technologies		66	28	1	2	2	7	10	10	6
Forestry & wildlife tech.		95	10	2	30	1	7	10	5	30
BUSINESS AND COMMERCE TECHNOLOGIES	Total	255	63	2	24	2	10	16	47	91
Business and commerce technologies, general		179	42	-	18	-	5	12	40	62
Accounting technologies		1	-	-	1	-	-	-	-	-
Marketing, distribution, purchasing, business & industrial mgt. tech.		2	-	2	-	-	-	-	-	-
Secretarial tech. (include office machines training)		3	2	-	-	-	-	1	-	-
Communications & broadcasting tech. (radio/television, newspaper)		27	2	-	4	1	3	1	5	11
Hotel & restaurant management technologies		16	6	-	-	-	-	1	-	9
Other		27	11	-	1	1	2	1	2	9
PUBLIC SERVICE RELATED TECHNOLOGIES	Total	232	51	2	13	-	9	11	15	131
Public service technologies, general		91	32	-	7	-	2	-	2	48
Police, law enforcement, corrections technologies		77	6	2	1	-	2	5	2	59
Recreation and social work related technologies		34	3	-	4	-	5	2	8	12
Other		30	10	-	1	-	-	4	3	12
ARTS AND SCIENCE TRANSFERS										
Arts and science transfers who enter four-year prog.		264	12	1	35	5	9	7	83	112

"END OF DOCUMENT"